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By Industry and Occupation

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PROJECTIONS OF EMPLOYMENT

By Industry and Occupation

1992-1998

SAN MATEO COUNTY

1994

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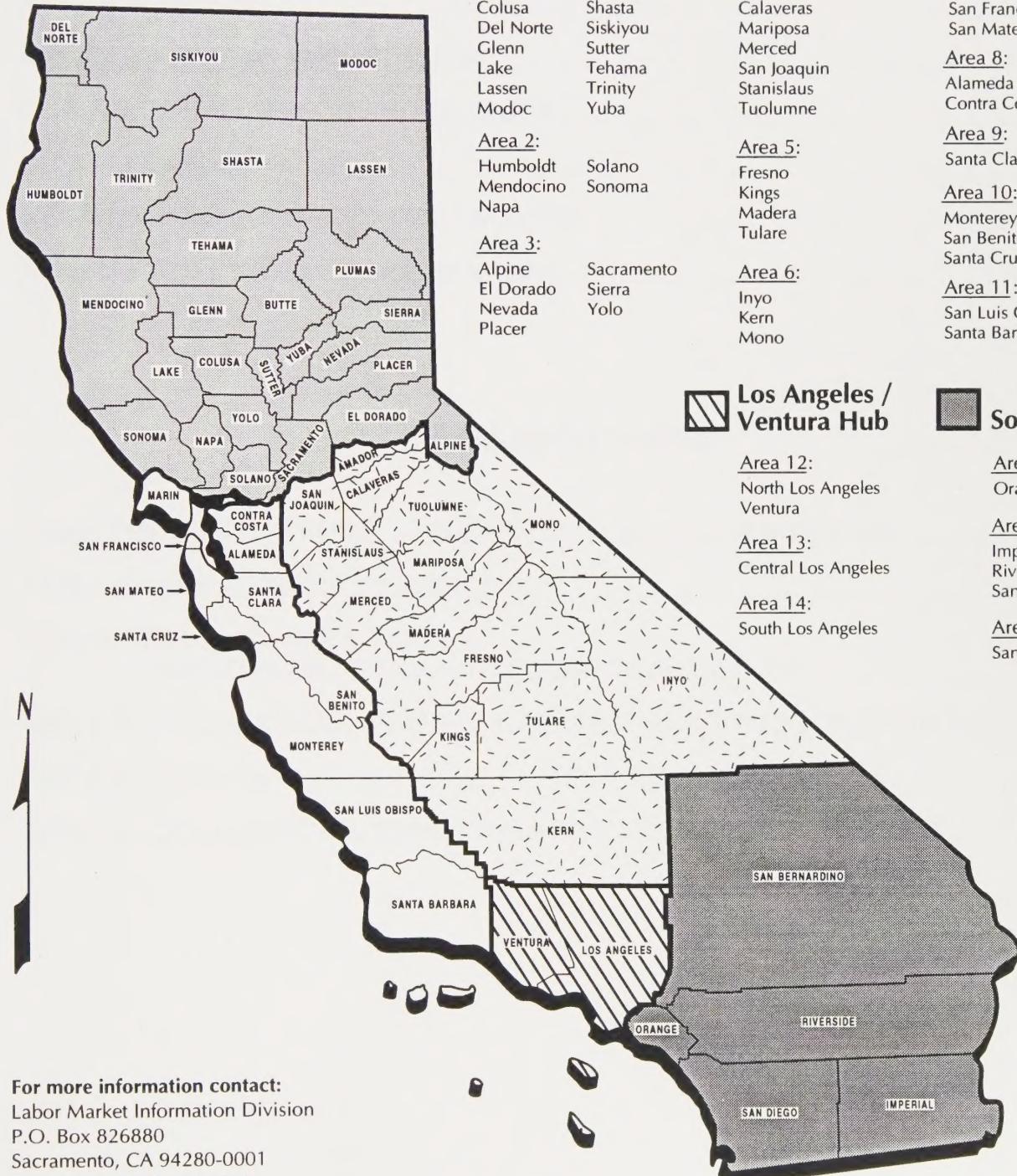
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INTRODUCTION

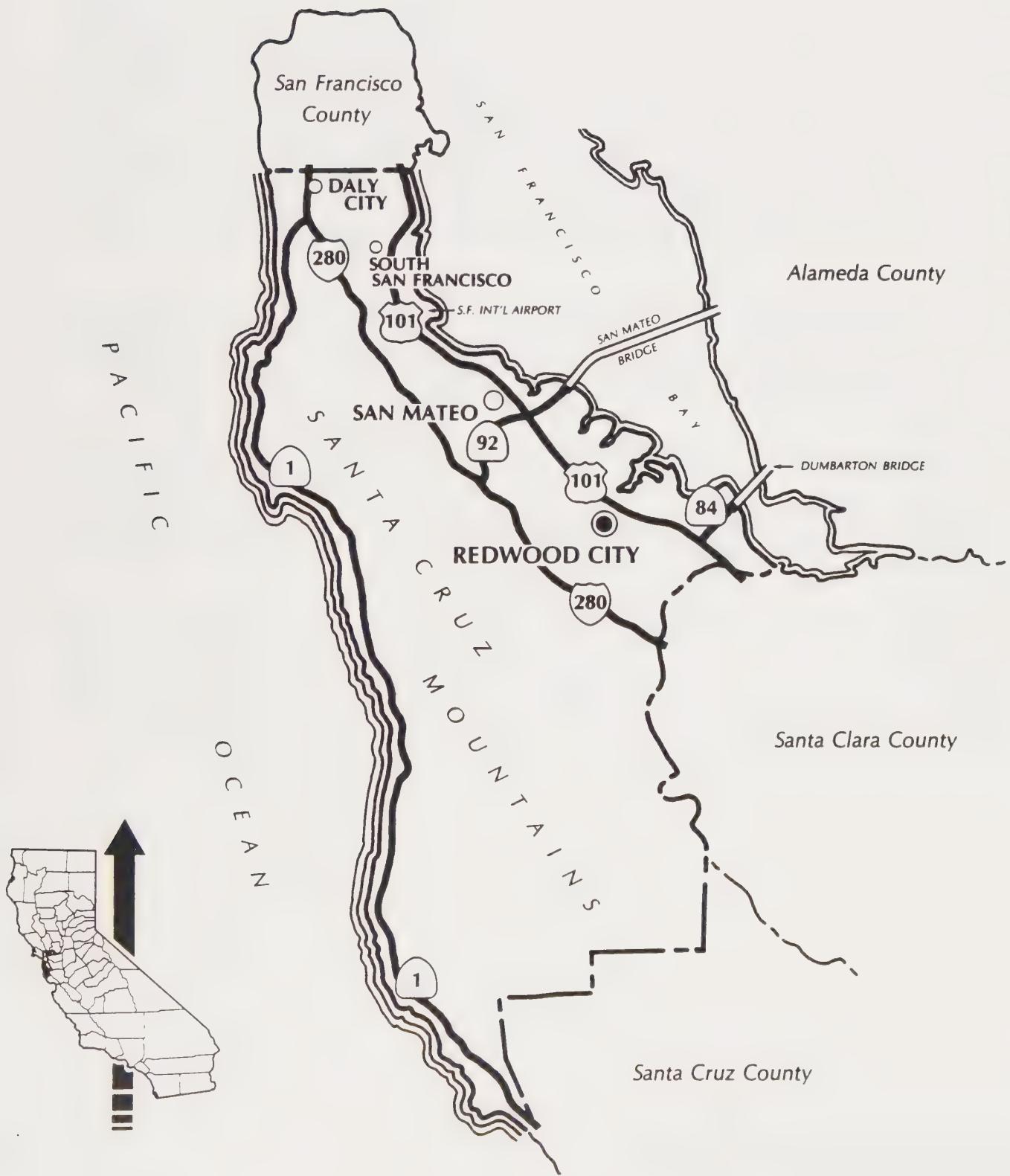
As a product of the California Cooperative Occupational Information System (CCOIS), formerly known as the State/Local Cooperative Labor Market Information (LMI) Program, this PROJECTIONS report is for the use of a variety of individuals and organizations interested in the labor market. Combined with other data, the projections presented here can help students, jobseekers, and counselors identify promising career and employment directions; they can help vocational education and training planners decide which programs to initiate, expand, decrease or eliminate; and they can help private sector economic development planners and private industry decision makers plan for the future. In addition to this report, the CCOIS will provide one or more reports and analyses of specific occupations which have been surveyed locally for employer information about the availability of trained workers, recruitment practices, qualifications needed, earnings and hours, advancement patterns, and outlook. These reports will be available through the San Mateo Private Industry Council. For more information contact your local Private Industry Council at (415) 599-3840.

These projections show the expected change in the number of jobs in an area both by industry (where the jobs are located within the economy) and by occupation (what the jobs are) over a six-year period. The report addresses industry and occupational changes separately, with each section covering projections for the same time period.

This report is divided into several sections. It begins with an area profile and is followed by a detailed discussion of trends for major industry divisions and occupational groups, and includes tables which show detailed industry and occupational employment projections. A discussion of the data sources and underlying economic assumptions follows this. Finally, an alphabetical index of the occupational categories used in this report is presented.

The projections contained in this report were developed using an Occupational Employment Statistics (OES) survey-based industry-occupational matrix system. The report includes wage and salary employment, but does not include self-employment or agricultural employment, with the exception of selected agricultural services. For a more detailed description of the methods and data sources used in this report, see the Methods and Economic Assumptions section.

SAN MATEO COUNTY



AREA PROFILE

SAN MATEO COUNTY

The County of San Mateo is located on a mountainous peninsula in Northern California. It is bordered on the west by the Pacific Ocean and on the east by the San Francisco Bay. San Francisco County lies to the north and Santa Clara and Santa Cruz counties to the south. The maritime climate provides year-round cool temperatures, with morning and evening fog common in the western part of the county. At 449 square miles, over 680,000 residents and over a quarter-million housing units, the county has an overall population density of about 1,500 persons per square mile. However, the coastal mountain range bisects the county, limiting the western side to such rural uses as agriculture, game preserve, watershed, parks, and undeveloped lands. In addition, some restricted coastal developments, including the cities of Daly City and Pacifica, are located on the west coast. In contrast, the eastern side of the county is densely-populated low land fronting San Francisco Bay making up the middle of a continuous urban area stretching from San Jose (Santa Clara County) in the south to San Francisco in the north. The eastern half contains the major transportation arteries and facilities: U.S. Highway 101, Interstate 280, the San Mateo and Dumbarton Bridges, San Francisco International Airport and the deepwater port of Redwood City. Local transportation is also provided by passenger railroad and county bus service.

About 200,000 of San Mateo's labor force work in the county; the remaining 150,000 commute to neighboring counties. In addition to the residents, the county imports almost 100,000 workers to supply labor for approximately 290,000 wage and salary jobs. Two-thirds of these jobs are concentrated in the services, retail and wholesale trade, and transportation sectors. Many of San Mateo's jobs were developed to support San Francisco's tourism, corporate headquarters and international trade, and the Silicon Valley electronics manufacturing area of Santa Clara County. Millions of people enter the county through San Francisco International Airport en route to these two destinations.

San Mateo, San Francisco, and Marin counties comprise the San Francisco Primary Metropolitan Statistical Area (PMSA).

INDUSTRY TRENDS

INDUSTRY CHART
EMPLOYMENT BY MAJOR INDUSTRY
SAN MATEO COUNTY 1986 - 1992 - 1998

EMPLOYMENT

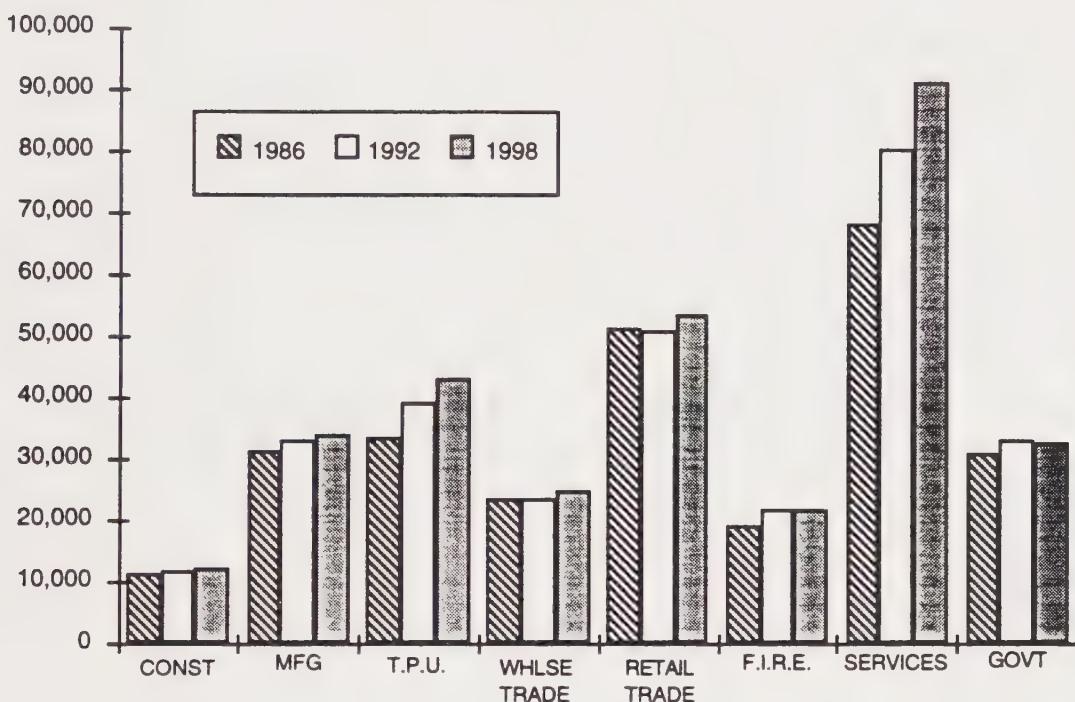


TABLE 1
EMPLOYMENT BY MAJOR INDUSTRY⁽¹⁾
SAN MATEO COUNTY 1986 - 1992 - 1998

INDUSTRY TITLE	1986 EMPLOYMENT	% OF TOTAL EMPLOYMENT	1992 EMPLOYMENT	% OF TOTAL EMPLOYMENT	1998 EMPLOYMENT	% OF TOTAL EMPLOYMENT
TOTAL NONAGRICULTURAL	269,000	100.0%	293,100	100.0%	313,400	100.0%
MINING & CONSTRUCTION	11,300	4.2%	11,800	4.0%	12,100	3.9%
MANUFACTURING	31,400	11.7%	33,000	11.3%	34,100	10.9%
TRANSPORTATION & PUBLIC UTILITIES	33,300	12.4%	39,100	13.3%	43,200	13.8%
WHOLESALE TRADE	23,300	8.7%	23,300	7.9%	24,800	7.9%
RETAIL TRADE	51,200	19.0%	50,900	17.4%	53,500	17.1%
FINANCE, INSURANCE, & REAL ESTATE	19,200	7.1%	21,700	7.4%	21,800	7.0%
SERVICES	68,300	25.4%	80,300	27.4%	91,200	29.1%
GOVERNMENT ⁽²⁾	31,000	11.5%	33,000	11.3%	32,700	10.4%

(1) Preliminary March 1992 Benchmark. Employment is reported by place of work and excludes self-employed persons, unpaid family workers, and those involved in labor-management trade disputes. These data are based on Standard Industrial Classifications. Annual average industry detail may not add up to totals due to independent rounding. Projections data exclude some service workers.

(2) Includes all civilian government employees regardless of the activities in which they are engaged.

INDUSTRY TRENDS AND OUTLOOK

From 1992 to 1998, nonagricultural employment in San Mateo County will grow by 20,300 jobs, including both full-time and part-time positions. This represents a 6.9 percent job growth rate for this six-year period, a slower rate than the 9.1 percent of the prior six-year period (1986 to 1992). In the 1990s, job growth is expected in all industry divisions, except government.

The **services** industry division will gain the majority of new jobs during the forecast period. Currently accounting for more than one-quarter of all jobs in San Mateo County, this division will add almost 11,000 new jobs between 1992 and 1998. Business services, health services and engineering and related services are the largest categories within the division. Substantial payroll gains are expected for business services, including its largest component industries: temporary help supply services and employment agencies, computer-related services, building maintenance and detective, guard and armored car services. Recent labor market trends show an increase in the number of temporary workers and an increase in the amount of business functions (e.g., cleaning, maintenance, security, computer services) outsourced by mid- and large-size companies. Payrolls will also expand within the engineering, accounting, research, and management services group. Employment within this group will increase by 1,500 during the forecast period. Meanwhile, health services will add 1,600 jobs, particularly in doctors' and dentists' offices, nursing care facilities, home health care services and outpatient clinics. In comparison, hospital payrolls will grow at a much slower rate than payrolls of other health care facilities, largely due to consolidation and decreasing demand for inpatient services. Among other growing service industries, the hotel and motel industry and amusement and recreational services will each add several hundred jobs between 1992 and 1998. Increasing passenger traffic at San Francisco International Airport and stronger Bay Area ties to the Pacific Rim business community promise a growing demand for hotel and motel rooms and amusement and recreational services.

The **transportation and public utilities** division will gain 4,100 jobs between 1992 and 1998, mostly in air transportation. The latter part of the forecast period should prove particularly strong for air transportation employment at San Francisco International Airport in light of the expansion of the international terminal. Local and interurban transportation payrolls will increase by 20 percent to handle the expansion of the airport, a growing population, traffic congestion and air quality regulations. Other transportation industries will grow at a slower pace. Meanwhile, employment in the communications and utilities industries will decline as jobs are transferred out of the county or lost due to advances in technology.

Retail trade will experience moderate job growth during the forecast period. The largest employment gains are expected in restaurants and food and electronics stores. Increasing numbers of visitors and a growing population will spur a healthy demand for more retail trade. However, this demand will temper job creation as consumer spending trends shift. Department stores will end the forecast period down 600 jobs. All other retail trade sectors will show some employment growth.

Wholesale trade will add 1,500 new jobs between 1992 and 1998. Employment gains will be made in both nondurable-goods and durable-goods wholesaling. Some of this gain is from increased trade through the international airport and the port of Redwood City.

Employment within the **manufacturing** division will increase by 1,100 jobs during the forecast period. However, most of the job growth will occur in six industries. The industries with the largest payroll gains will be: chemical and allied products (including biotechnology), printing and publishing, instruments, and machinery (including computers). The county will continue its leadership in the development of biotechnology, as well as technological development in computers and multimedia, scientific instruments and fiber optics.

Construction industry employment is expected to end the forecast period, in 1998, with 300 more jobs than in 1992.

Payrolls within the **finance, insurance and real estate** industry division will increase by 100 jobs during the forecast period. The insurance and real estate industries will each add hundreds of jobs. In contrast, the financial sector will shrink as financial institutions continue to reduce their payrolls.

Government payrolls will shrink between 1992 and 1998. Most of these job losses will be in federal defense and nondefense facilities as federal budget expenditures for payrolls decline. Employment will also drop in state, county and city government. All of the (net) new jobs during the forecast period will be in local education and special districts.

TABLE 2
EMPLOYMENT BY INDUSTRY⁽¹⁾
1992 ANNUAL AVERAGE AND 1998 PROJECTED EMPLOYMENT
SAN MATEO COUNTY

INDUSTRY TITLE	SIC	1992	1998	ABSOLUTE CHANGE	PERCENT CHANGE
TOTAL NONAGRICULTURAL		293,100	313,400	20,300	6.9%
MINING & CONSTRUCTION	10-14	11,800	12,100	300	2.5%
MANUFACTURING	20-39	33,000	34,100	1,100	3.3%
DURABLE GOODS	24-25,32-39	20,000	20,800	800	4.0%
PRIMARY & FABRICATED METALS	33-34	5,500	5,600	100	1.8%
ELECTRICAL & ELECTRONIC EQUIPMENT	36	6,100	6,200	100	1.6%
INSTRUMENT	38	3,300	3,600	300	9.1%
OTHER DURABLE GOODS	24-25,32,35,37,39	5,100	5,400	300	5.9%
NONDURABLE GOODS	20-23,26-31	13,000	13,300	300	2.3%
FOOD & KINDRED PRODUCTS	20	2,600	2,600	0	0.0%
PRINTING & PUBLISHING	27	4,700	5,000	300	6.4%
CHEMICALS & ALLIED PRODUCTS	28	3,400	3,700	300	8.8%
OTHER NONDURABLE GOODS	22-3,6,9,30-1	2,300	2,000	-300	-13.0%
TRANSPORTATION & PUBLIC UTILITIES	40-49	39,100	43,200	4,100	10.5%
TRANSPORTATION	40-42,44-47	34,100	38,800	4,700	13.8%
TRUCKING & WAREHOUSING	42	3,100	3,200	100	3.2%
AIR TRANSPORTATION	45	26,700	30,700	4,000	15.0%
OTHER TRANSPORTATION	40-1,4,6,7	4,300	4,900	600	14.0%
COMMUNICATIONS & UTILITIES	48-49	5,000	4,400	-600	-12.0%
WHOLESALE TRADE	50-51	23,300	24,800	1,500	6.4%
RETAIL TRADE	52-59	50,900	53,500	2,600	5.1%
DEPARTMENT & APPAREL STORES	53-56	9,400	8,800	-600	-6.4%
FOOD STORES	54	6,400	6,800	400	6.3%
AUTO DEALERS & SERVICE STATIONS	55	4,700	4,800	100	2.1%
EATING & DRINKING PLACES	58	17,600	18,400	800	4.5%
OTHER RETAIL TRADE	52,57,59	12,800	14,700	1,900	14.8%
FINANCE, INSURANCE, & REAL ESTATE	60-67	21,700	21,800	100	0.5%
FINANCE	60-62,67	10,000	9,500	-500	-5.0%
INSURANCE	63-64	6,200	6,600	400	6.5%
REAL ESTATE	65	5,500	5,700	200	3.6%
SERVICES	70-89,074-5,8	80,300	91,200	10,900	13.6%
HOTELS & OTHER LODGING PLACES	70	4,700	5,100	400	8.5%
BUSINESS SERVICES	73	18,400	22,800	4,400	23.9%
AUTO & MISCELLANEOUS REPAIR	75-76	5,400	5,700	300	5.6%

(1) Preliminary March 1992 Benchmark. Employment is reported by place of work and excludes self-employed persons, unpaid family workers, and those involved in labor-management trade disputes. These data are based on Standard Industrial Classifications. Annual average industry detail may not add up to totals due to independent rounding. Projections data exclude some service workers.

(2) Includes all civilian government employees regardless of the activities in which they are engaged.

HEALTH SERVICES	80	17,200	18,800	1,600	9.3%
ENGINEERING & MANAGEMENT SERVICES	87	12,900	14,400	1,500	11.6%
OTHER SERVICES	72,78-79,81-86,89, 074-5,8	21,700	24,400	2,700	12.4%
GOVERNMENT(2)		33,000	32,700	-300	-0.9%
FEDERAL		5,900	5,000	-900	-15.3%
STATE & LOCAL		27,100	27,700	600	2.2%

(1) Preliminary March 1992 Benchmark. Employment is reported by place of work and excludes self-employed persons, unpaid family workers, and those involved in labor-management trade disputes. These data are based on Standard Industrial Classifications. Annual average industry detail may not add up to totals due to independent rounding. Projections data exclude some service workers.

(2) Includes all civilian government employees regardless of the activities in which they are engaged.

OCCUPATIONAL TRENDS

OCCUPATIONAL CHART
EMPLOYMENT BY MAJOR OCCUPATIONAL GROUP
SAN MATEO COUNTY 1992 - 1998

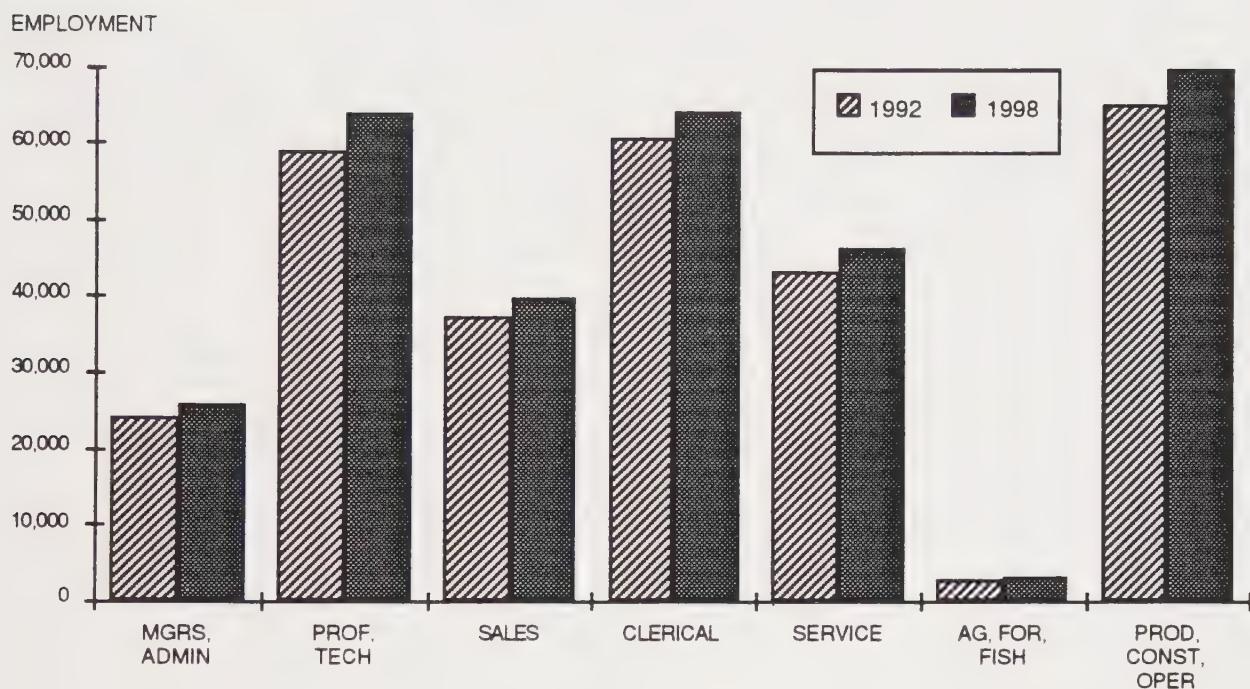


TABLE 3
EMPLOYMENT BY MAJOR OCCUPATIONAL GROUP
SAN MATEO COUNTY 1992 - 1998

OCCUPATIONAL GROUP	1992 EMPLOYMENT	% OF TOTAL	1998 EMPLOYMENT	% OF TOTAL	ABSOLUTE CHANGE	PERCENT CHANGE
TOTAL, ALL OCCUPATIONS(1)	293,100	100.0%	313,400	100.0%	20,300	6.9%
MGRS AND ADMINISTRATIVE	24,040	8.2%	25,850	8.2%	1,810	7.5%
PROFESSIONAL, PARAPROF, TECH	58,960	20.1%	63,760	20.3%	4,800	8.1%
SALES AND RELATED	37,280	12.7%	39,680	12.7%	2,400	6.4%
CLERICAL, ADMINISTRATIVE SUPPORT	60,930	20.8%	64,310	20.5%	3,380	5.5%
SERVICE OCCUPATIONS	43,230	14.7%	46,470	14.8%	3,240	7.5%
AGRICULTURAL, FORESTRY, FISH	2,690	0.9%	2,950	0.9%	260	9.7%
PROD, CONST, OPER, MAT HAND	65,480	22.3%	69,810	22.3%	4,330	6.6%

(1) TOTAL INCLUDES A SMALL NUMBER OF OCCUPATIONS WHICH WERE NOT CLASSIFIED, AND IS BASED ON THE PRELIMINARY 3/92 BENCHMARKED INDUSTRY TOTAL

TABLE 4
OCCUPATIONS WITH THE GREATEST ABSOLUTE JOB GROWTH⁽¹⁾

SAN MATEO COUNTY 1992 - 1998

OCCUPATION	ANNUAL AVERAGE 1992	ANNUAL AVERAGE 1998	ABSOLUTE CHANGE	PERCENT CHANGE
GENERAL OFFICE CLERKS	8,030	8,670	640	8.0%
GENERAL MANAGERS, TOP EXECUTIVES	9,060	9,680	620	6.8%
SECRETARIES, GENERAL	7,180	7,690	510	7.1%
CASHIERS	5,210	5,700	490	9.4%
JANITORS, CLEANERS--EXCEPT MAIDS	4,280	4,770	490	11.4%
SALESPERSONS - RETAIL(NON-VEHICLE)	10,860	11,260	400	3.7%
TEACHERS--ELEMENTARY SCHOOL	3,910	4,240	330	8.4%
RECEPTIONISTS, INFORMATION CLERKS	3,080	3,410	330	10.7%
TRUCK DRIVERS, LIGHT	3,450	3,740	290	8.4%
INSTRUCTIONAL AIDES	2,920	3,190	270	9.2%
SALES REPS, NON-SCIENTIFIC EX RET	4,540	4,810	270	5.9%
STOCK CLERKS-STOCKROOM, WAREHOUSE	3,050	3,310	260	8.5%
WAITERS AND WAITRESSES	5,030	5,280	250	5.0%
GUARDS AND WATCH GUARDS	1,520	1,750	230	15.1%
ENGINEER, MATH, AND NAT SCI MGRS	1,870	2,080	210	11.2%
COMPUTER PROGRAMMERS, INCL AIDES	2,070	2,280	210	10.1%
GARDENERS, GROUNDSKEEPERS-EX FARM	2,030	2,240	210	10.3%
MKTG, ADV, PUB-REL MANAGERS	2,000	2,200	200	10.0%
FOOD PREPARATION WORKERS	3,760	3,960	200	5.3%
TYPISTS, INCLUDING WORD PROCESSING	2,150	2,340	190	8.8%
SALES AGENTS--FINANCIAL SERVICES	1,160	1,340	180	15.5%
ELECT AND ELECTRONIC ENGINEERS	1,710	1,880	170	9.9%
REGISTERED NURSES	3,530	3,700	170	4.8%
MAINT REPAIRERS, GENL UTILITY	2,880	3,050	170	5.9%
ELECT, ELECTRONIC ENGINEERING TECH	1,550	1,710	160	10.3%
SALES REPS, SCIENTIFIC--EX RETAIL	1,750	1,910	160	9.1%
NURSE AIDES, ORDERLIES, ATTENDANTS	1,660	1,820	160	9.6%
ACCOUNTANTS AND AUDITORS	2,090	2,240	150	7.2%
STOCK CLERKS--SALES FLOOR	2,110	2,260	150	7.1%
COOKS--RESTAURANT	1,760	1,900	140	8.0%
TEACHERS--SECONDARY SCHOOL	1,460	1,590	130	8.9%
HAND PACKERS AND PACKAGERS	1,620	1,750	130	8.0%
SYSTEMS ANALYSTS-ELEC DATA PROC	1,340	1,460	120	9.0%
DATA ENTRY KEYERS--EX COMPOSING	1,170	1,290	120	10.3%
COMBINED FOOD PREP AND SERVICE	2,250	2,370	120	5.3%
TRUCK DRIVERS, HEAVY	1,700	1,820	120	7.1%
VEHICLE WASHERS, EQUIP CLEANERS	1,140	1,260	120	10.5%
PROD, PLANNING, EXPEDITING CLERKS	870	980	110	12.6%
CARPENTERS	1,730	1,840	110	6.4%
FINANCIAL MANAGERS	2,430	2,530	100	4.1%
COMPUTER ENGINEERS	400	500	100	25.0%
COMM, TRANS, UTIL OPER MGRS	600	690	90	15.0%
TEACHERS--VOC ED AND TRAINING	840	930	90	10.7%
LICENSED VOCATIONAL NURSES	960	1,050	90	9.4%
MAIDS AND HOUSEKEEPING CLEANERS	1,520	1,610	90	5.9%
TEACHERS, PRESCHOOL & KINDERGARTEN	780	860	80	10.3%
INSTRUCTORS AND COACHES--SPORTS	450	530	80	17.8%
ADJUSTMENT CLERKS	1,230	1,310	80	6.5%
BOOKKEEPING, ACCOUNTING CLERKS	5,890	5,970	80	1.4%
COUNTER ATTENDANTS-FOOD	1,080	1,160	80	7.4%
TOTAL OF THESE OCCUPATIONS	135,660	145,910	10,250	7.6%

(1) EXCLUDES NOT ELSEWHERE CLASSIFIED (NEC) CATEGORIES. AIR TRANSPORTATION OCCUPATIONS WERE EXCLUDED DUE TO CHANGES IN THE SCHEDULE FOR THE EXPANSION OF SAN FRANCISCO INTERNATIONAL AIRPORT.

TABLE 5
OCCUPATIONS WITH THE FASTEST JOB GROWTH⁽¹⁾

SAN MATEO COUNTY 1992 - 1998

OCCUPATION	ANNUAL AVERAGE		ABSOLUTE CHANGE	PERCENT CHANGE
	1992	1998		
FIRST-LINE SUP/MGR-TRANSPORTATION	170	230	60	35.3%
HOME HEALTH CARE WORKERS	180	230	50	27.8%
COMPUTER ENGINEERS	400	500	100	25.0%
DEMONSTRATORS, PROMOTERS, MODELS	200	250	50	25.0%
EMPL INTERVIEWERS--PRIV OR PUB	180	220	40	22.2%
DATA PROCESSING EQUIP REPAIRERS	320	390	70	21.9%
BIOLOGICAL,AGRI, FOOD TECHS	140	170	30	21.4%
TAXI DRIVERS AND CHAUFFEURS	240	290	50	20.8%
VETS AND VETERINARY INSPECTORS	250	300	50	20.0%
MED, CLINICAL LAB ASSISTANTS	220	260	40	18.2%
INSTRUCTORS AND COACHES-SPORTS	450	530	80	17.8%
PHYSICAL THERAPISTS	230	270	40	17.4%
TECHNICAL WRITERS	230	270	40	17.4%
AERONAUT, ASTRONAUTICAL ENGINEERS	180	210	30	16.7%
PHYSICAL THERAPY ASSISTANTS & AIDE	180	210	30	16.7%
AMUSEMENT, RECREATION ATTENDANTS	430	500	70	16.3%
SALES ENGINEERS	320	370	50	15.6%
SALES AGENTS--FINANCIAL SERVICES	1,160	1,340	180	15.5%
GUARDS AND WATCH GUARDS	1,520	1,750	230	15.1%
COMM, TRANS, UTIL OPER MGRS	600	690	90	15.0%
ENGLISH, FOREIGN LANGUAGE TEACHERS	210	240	30	14.3%
EMERGENCY MEDICAL TECHNICIANS	210	240	30	14.3%
NURSERY WORKERS	210	240	30	14.3%
PHARMACISTS	360	410	50	13.9%
BUS DRIVERS-SCHOOL	380	430	50	13.2%
LODGING MANAGERS	230	260	30	13.0%
PROD, PLANNING, EXPEDITING CLERKS	870	980	110	12.6%
MEDICAL ASSISTANTS	570	640	70	12.3%
CHILD CARE WORKERS	260	290	30	11.5%
JANITORS, CLEANERS--EXCEPT MAIDS	4,280	4,770	490	11.4%
ENGINEER, MATH, AND NAT SCI MGRS	1,870	2,080	210	11.2%
ECONOMISTS--INCL MKT RESRCH ANALYS	540	600	60	11.1%
TRAVEL AGENTS	450	500	50	11.1%
DENTAL HYGIENISTS	360	400	40	11.1%
TELEMARKETERS, SOLICITORS & RELATE	270	300	30	11.1%
RECEPTIONISTS, INFORMATION CLERKS	3,080	3,410	330	10.7%
TEACHERS--VOC ED AND TRAINING	840	930	90	10.7%
FOOD SERVICE MANAGERS	560	620	60	10.7%
OFFSET LITHOGRAPHIC PRESS SETTERS	280	310	30	10.7%
GARDENERS, GROUNDSKEEPERS-EX FARM	2,030	2,240	210	10.3%
OPTICIANS--DISPENSING, MEASURING	290	320	30	10.3%
ELECT, ELECTRONIC ENGINEERING TECH	1,550	1,710	160	10.3%
DATA ENTRY KEYERS--EX COMPOSING	1,170	1,290	120	10.3%
TEACHERS, PRESCHOOL & KINDERGARTEN	780	860	80	10.3%
DENTAL ASSISTANTS	590	650	60	10.2%
COMPUTER PROGRAMMERS, INCL AIDES	2,070	2,280	210	10.1%
DRIVER/SALES WORKERS	790	870	80	10.1%
MKTING, ADV, PUB-REL MANAGERS	2,000	2,200	200	10.0%
ELECT AND ELECTRONIC ENGINEERS	1,710	1,880	170	9.9%
MANAGEMENT ANALYSTS	510	560	50	9.8%
TOTAL OF THESE OCCUPATIONS	36,920	41,490	4,570	12.4%

(1) EXCLUDES NOT ELSEWHERE CLASSIFIED (NEC) CATEGORIES AND OCCUPATIONS WITH EMPLOYMENT GROWTH OF LESS THAN 30%. AIR TRANSPORTATION OCCUPATIONS WERE EXCLUDED DUE TO CHANGES IN THE SCHEDULE FOR THE EXPANSION OF SAN FRANCISCO INTERNATIONAL AIRPORT.

OCCUPATIONAL TRENDS AND OUTLOOK

This section of the report provides a discussion of major trends for the occupational groups in Table 6. Projected changes in the level of employment in each occupation between 1992 and 1998 give an estimate of the number of new jobs expected during the six-year period.

Changes in the employment levels of the various occupations reflect changes in the area's overall level of economic activity, differences in the rate of growth or decline among the various industries, and changes in the occupational structure within individual industries. Changes in occupational structure are determined by such factors as technological change, changes in product demand, and the adoption of more efficient business or production techniques. Economic growth tends to ensure an increase in demand for widely used occupations, such as sales. However, the growth in specific industries, such as health care and its related occupations, may bring about an increase in demand for other less prevalent occupations.

Between 1992 and 1998, the number of jobs in San Mateo County is expected to increase by 6.9 percent. In addition to 20,300 job opportunities created through industry growth, another 40,710 jobs will become available as a result of separations. The "separations" data are partial estimates of the number of entrants who will be needed to fill openings created by people leaving an occupation. The total number of openings would be much larger, especially if we included those resulting from people changing jobs but remaining in the same occupation. See the Methods and Economic Assumptions at the back of this report for a fuller explanation.

MANAGERS AND ADMINISTRATIVE OCCUPATIONS

The number of managers and administrators in the county is expected to grow from 24,040 in 1992 to 25,850 in 1998. This is somewhat faster than the average rate of growth for all occupations in the county. Separations will account for an additional 2,150 job openings.

OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE MANAGERS AND ADMINISTRATIVE WORKERS GROUP(1)

OCCUPATION	1992 EMPLOYMENT	% OF TOTAL	1998 EMPLOYMENT	% OF TOTAL
MANAGERS AND ADMINISTRATIVE	24,040	100.0%	25,850	100.0%
GENERAL MANAGERS, TOP EXECUTIVES	9,060	37.7%	9,680	37.5%
FINANCIAL MANAGERS	2,430	10.1%	2,530	9.8%
MKTG, ADV, PUB-REL MANAGERS	2,000	8.3%	2,200	8.5%
ENGINEER, MATH, AND NAT SCI MGRS	1,870	7.8%	2,080	8.1%
PROPERTY AND REAL ESTATE MANAGERS	1,020	4.3%	1,080	4.2%

(1) EXCLUDES NOT ELSEWHERE CLASSIFIED CATEGORIES.

This occupational group contains managers, administrators, executives, and officials in all industries. Employers reported 38 percent of all managers as general managers or top executives with widely varied duties. Among more specialized managers, the largest number of new jobs will develop for engineer/ math/natural science managers and marketing/advertising/public relations managers.

PROFESSIONAL AND TECHNICAL OCCUPATIONS

The professional and technical group is the third largest occupational group in the county and includes 20 percent of all local workers. About 25 of its occupations have 500 or more workers. They include many highly trained workers such as registered nurses, accountants, lawyers, computer programmers, civil engineers, teachers, instructional aides and computer systems analysts.

The number of professional and technical workers will grow by 8.2 percent during the projection period, reaching a total of 63,760 by 1998. An additional 5,900 job opportunities will be created by separations. The fastest growing professional and technical occupation will be computer engineers.

OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE PROFESSIONAL AND TECHNICAL GROUP(1)

OCCUPATION	1992 EMPLOYMENT	% OF TOTAL	1998 EMPLOYMENT	% OF TOTAL
PROFESSIONAL, PARAPROF, TECH	58,960	100.0%	63,760	100.0%
TEACHERS-ELEMENTARY SCHOOL	3,910	6.6%	4,240	6.7%
REGISTERED NURSES	3,530	6.0%	3,700	5.8%
INSTRUCTIONAL AIDES	2,920	5.0%	3,190	5.0%
COMPUTER PROGRAMMERS, INCL AIDES	2,070	3.5%	2,280	3.6%
ACCOUNTANTS AND AUDITORS	2,090	3.6%	2,240	3.5%

(1) EXCLUDES NOT ELSEWHERE CLASSIFIED CATEGORIES.

It is particularly important, when using data from this report on professional occupations, to realize that the employment levels include only wage and salary or payroll employment, and do not include self-employed workers. Self-employment makes up a large proportion of all jobs in many professional occupations such as physicians or dentists. Consequently, our figures for these types of occupations will be very different from those in other sources of data that include self-employed individuals.

SALES AND RELATED OCCUPATIONS

These workers are employed primarily by retail stores, manufacturing and wholesale firms, insurance companies, and real estate agencies. Jobs in sales occupations totaled 37,280, or 12.7 percent of all wage and salary employment in the county during 1992. These occupations will gain 2,400 workers, reaching a total of 39,680 jobs in 1998. In addition to the jobs created by economic expansion, there will be an estimated 6,950 openings generated by the need to replace workers who permanently leave these occupations.

**OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE
SALES AND RELATED GROUP(1)**

OCCUPATION	1992 EMPLOYMENT	% OF TOTAL	1998 EMPLOYMENT	% OF TOTAL
SALES AND RELATED	37,280	100.0%	39,680	100.0%
SALESPERSONS - RETAIL(NON-VEHICLE)	10,860	29.1%	11,260	28.4%
CASHIERS	5,210	14.0%	5,700	14.4%
SALES REPS, NON-SCIENTIFIC EX RET	4,540	12.2%	4,810	12.1%
FIRST-LINE SUP/MGR-SALES	3,800	10.2%	4,020	10.1%
STOCK CLERKS--SALES FLOOR	2,110	5.7%	2,260	5.7%

(1) EXCLUDES NOT ELSEWHERE CLASSIFIED CATEGORIES.

Although this group is comparatively small, it contains the largest occupation in the county: retail salesperson. This occupation will grow by 400 workers, reaching 11,260 in 1998.

CLERICAL AND ADMINISTRATIVE SUPPORT OCCUPATIONS

The clerical and administrative support occupations are expected to grow by 3,380 jobs, or 5.5 percent, during the 1992-98 projection period. An additional 7,500 job openings will be generated by the need to replace workers who permanently leave these occupations. Secretarial and general office occupations will add 1,940 jobs, accounting for over half the growth in this category. Both general office clerk and general secretary will add over 500 jobs. One out of every twenty jobs in the county is in one of these two occupations.

**OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE
CLERICAL AND ADMINISTRATIVE SUPPORT GROUP(1)**

OCCUPATION	1992 EMPLOYMENT	% OF TOTAL	1998 EMPLOYMENT	% OF TOTAL
CLERICAL AND ADMIN SUPPORT	60,930	100.0%	64,310	100.0%
GENERAL OFFICE CLERKS	8,030	13.2%	8,670	13.5%
SECRETARIES, GENERAL	7,180	11.8%	7,690	12.0%
BOOKKEEPING, ACCOUNTING CLERKS	5,890	9.7%	5,970	9.3%
FIRST-LINE SUP/MGR, CLERL, ADM SUP	4,120	6.8%	4,270	6.6%
RECEPTIONISTS, INFORMATION CLERKS	3,080	5.1%	3,410	5.3%

(1) EXCLUDES NOT ELSEWHERE CLASSIFIED CATEGORIES.

SERVICE OCCUPATIONS

Service workers are found in a variety of establishments, providing business services; preparing/serving food and beverages; and providing health care, grooming, cosmetic, and other personal services. Service occupations accounted for about 15 percent of the total occupational work force in 1992 and a gain of 3,230 new workers will bring the 1998 total to 46,470. There will be 9,740 additional job openings created by job separations.

OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE SERVICE GROUP(1)

OCCUPATION	1992 EMPLOYMENT	% OF TOTAL	1998 EMPLOYMENT	% OF TOTAL
SERVICE OCCUPATIONS	43,230	100.0%	46,470	100.0%
WAITERS AND WAITRESSES	5,030	11.6%	5,280	11.4%
JANITORS, CLEANERS--EXCEPT MAIDS	4,280	9.9%	4,770	10.3%
FOOD PREPARATION WORKERS	3,760	8.7%	3,960	8.5%
COMBINED FOOD PREP AND SERVICE	2,250	5.2%	2,370	5.1%
COOKS-RESTAURANT	1,760	4.1%	1,900	4.1%

(1) EXCLUDES NOT ELSEWHERE CLASSIFIED CATEGORIES.

Waiters/waitresses and guards/watch guards will show the largest absolute gains, while home health care workers will grow the most rapidly--- almost 28 percent in six years. Also growing rapidly during the projection period will be medical assistants, physical therapy assistants and amusement/recreation attendants.

AGRICULTURAL, FORESTRY, AND FISHING OCCUPATIONS

This is the smallest of the major occupational groups. Gardeners and groundskeepers account for 75 percent of the group's employment. There will be an estimated 210 new jobs for gardeners and groundskeepers during the projection period, with a total of 2,240 working by 1998. An additional 200 of these workers will be needed over this period to replace workers who permanently leave this occupation.

OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE AGRICULTURE, FORESTRY AND FISHING GROUP(1)

OCCUPATION	1992 EMPLOYMENT	% OF TOTAL	1998 EMPLOYMENT	% OF TOTAL
AGRICULTURAL, FORESTRY, FISH	2,690	100.0%	2,950	100.0%
GARDENERS, GROUNDSKEEPERS-EX FARM	2,030	75.5%	2,240	75.8%
NURSERY WORKERS	210	8.0%	240	8.2%
ANIMAL CARETAKERS--EXCEPT FARM	160	5.8%	160	5.4%
GRADERS, SORTERS--AG PRODUCTS	40	1.3%	40	1.3%
FIRST-LINE SUPERVISORS - AGRICULTURE	20	0.7%	20	0.6%

(1) EXCLUDES NOT ELSEWHERE CLASSIFIED CATEGORIES.

PRODUCTION, CONSTRUCTION, AND RELATED OCCUPATIONS

About 24 of the occupations in this group have 500 or more workers. The largest occupational categories in this group are: mechanics, installers, and repairers; transportation/material moving workers; laborers and helpers; and construction trades. The mobile equipment mechanics occupational category is the largest locally and is anticipated to increase by 7.2 percent during the forecast period. The entire group will employ a projected 69,810 workers by 1998, an increase of 4,330 from the 1992 total. An additional 8,150 job opportunities will occur due to separations.

**OCCUPATIONS WITH THE LARGEST NUMBER OF JOBS IN THE
PRODUCTION, CONSTRUCTION, AND RELATED GROUP(1)**

OCCUPATION	1992 EMPLOYMENT	% OF TOTAL	1998 EMPLOYMENT	% OF TOTAL
PROD, CONST, OPER, MAT HAND	65,480	100.0%	69,810	100.0%
TRUCK DRIVERS, LIGHT	3,450	5.3%	3,740	5.4%
MAINT REPAIRERS, GENL UTILITY	2,880	4.4%	3,050	4.4%
CARPENTERS	1,730	2.7%	1,840	2.6%
TRUCK DRIVERS, HEAVY	1,700	2.6%	1,820	2.6%
ASSEMB, FABRICATORS--EX MACH,ELECT	1,790	2.7%	1,790	2.6%

(1) EXCLUDES NOT ELSEWHERE CLASSIFIED CATEGORIES.

TABLE 6
OCCUPATIONAL EMPLOYMENT PROJECTIONS

SAN MATEO COUNTY 1992 - 1998

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1992	AVERAGE 1998	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
1		TOTAL, ALL OCCUPATIONS ⁽¹⁾	293,100	313,400	20,300	6.9	40,710
2	100000	MGRS AND ADMIN OCCUPATIONS	24,040	25,850	1,810	7.5	2,150
3	130020	FINANCIAL MANAGERS	2,430	2,530	100	4.1	190
4	130050	PERS, TRAINING, LABOR-REL MGRS	530	570	40	7.5	70
5	130080	PURCHASING MANAGERS	840	880	40	4.8	100
6	130110	MKTNG, ADV, PUB-REL MANAGERS	2,000	2,200	200	10.0	230
7	130140	ADMINISTRATIVE SERVICES MANAGERS	920	990	70	7.6	80
8	130170	ENGINEER, MATH, AND NAT SCI MGRS	1,870	2,080	210	11.2	160
10	150050	EDUCATION ADMINISTRATORS	770	840	70	9.1	90
11	150080	MEDICINE, HEALTH SERVICES MGRS	350	360	10	2.9	20
12	150110	PROPERTY AND REAL ESTATE MANAGERS	1,020	1,080	60	5.9	80
13	150140	INDUSTRIAL PRODUCTION MANAGERS	450	480	30	6.7	40
14	150170	CONSTRUCTION MANAGERS	500	540	40	8.0	40
16	150230	COMM, TRANS, UTIL OPER MGRS	600	690	90	15.0	50
17	150261	FOOD SERVICE MANAGERS	560	620	60	10.7	50
18	150262	LODGING MANAGERS	230	260	30	13.0	20
20	190050	GENERAL MANAGERS, TOP EXECUTIVES	9,060	9,680	620	6.8	770
21	199990	MANAGERS AND ADMINISTRATORS, NEC	1,910	2,050	140	7.3	160
22	200000	PROFESSIONAL, PARAPROF, TECHNICAL	58,960	63,760	4,800	8.1	5,900
23	210000	MANAGEMENT SUPPORT OCCUPATIONS	9,040	9,620	580	6.4	760
24	211000	ACCOUNTANTS, AUDIT, FINANCE SPECS	3,950	4,170	220	5.6	340
25	211020	UNDERWRITERS	320	340	20	6.3	30
26	211050	CREDIT ANALYSTS	100	100	0	0.0	10
27	211080	LOAN OFFICERS AND COUNSELORS	320	280	-40	-12.5	20
28	211110	TAX PREPARERS	270	290	20	7.4	20
29	211140	ACCOUNTANTS AND AUDITORS	2,090	2,240	150	7.2	190
30	211170	BUDGET ANALYSTS	220	240	20	9.1	20
31	211990	FINANCIAL SPECIALISTS, NEC	630	680	50	7.9	50
32	213000	PURCHASING AGENTS AND BUYERS	1,270	1,330	60	4.7	130
33	213020	WHL AND RET BUYERS-EX FARM PRODS	470	500	30	6.4	50
34	213050	PURCH AGTS AND BUYERS-FARM PRODS	60	70	10	16.7	10
35	213080	PURCH AGTS--EX WHLE,RET,FARM PRODS	740	760	20	2.7	70
36	215000	PERS, TRAINING, LAB-REL SPECS	840	940	100	11.9	90
39	215080	EMPL INTERVIEWERS-PRIV OR PUB	180	220	40	22.2	20
40	215110	PERS, TRAINING, LAB-REL SPECS, NEC	660	720	60	9.1	70

(1) TOTAL IS BASED ON THE PRELIMINARY 3/92 BENCHMARKED INDUSTRY TOTAL

TABLE 6
OCCUPATIONAL EMPLOYMENT PROJECTIONS

SAN MATEO COUNTY 1992 - 1998

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1992	AVG. 1998	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
41	219000	OTHER MANAGEMENT SUPPORT WORKERS	2,980	3,180	200	6.7	200
42	219020	COST ESTIMATORS	480	500	20	4.2	30
43	219050	MANAGEMENT ANALYSTS	510	560	50	9.8	30
44	219080	CONST AND BUILDING INSPECTORS	150	160	10	6.7	20
45	219110	COMPL, ENFORCE INSPECT-EX CONST	390	370	-20	-5.1	30
48	219210	CLAIMS EXAMINERS--INSURANCE	150	140	-10	-6.7	10
49	219990	MANAGEMENT SUPPORT WORKERS, NEC	1,300	1,450	150	11.5	80
50	220000	ENGINEERS, ARCHITECTS, SURVEYORS	8,820	9,660	840	9.5	1,130
51	221000	ENGINEERS	5,220	5,820	600	11.5	730
52	221020	AERONAUT, ASTRONAUTICAL ENGINEERS	180	210	30	16.7	30
53	221050	METALLURGISTS, RELATED ENGINEERS	80	90	10	12.5	10
56	221140	CHEMICAL ENGINEERS	160	170	10	6.3	20
58	221210	CIVIL ENGINEERS--INCLUDING TRAFFIC	450	460	10	2.2	60
60	221260	ELECT AND ELECTRONIC ENGINEERS	1,710	1,880	170	9.9	220
61	221270	COMPUTER ENGINEERS	400	500	100	25.0	50
62	221280	INDUST ENGINEERS--EXCEPT SAFETY	200	220	20	10.0	30
63	221320	SAFETY ENGINEERS--EXCEPT MINING	50	50	0	0.0	10
64	221350	MECHANICAL ENGINEERS	550	580	30	5.5	80
66	221990	ENGINEERS, NEC	1,440	1,660	220	15.3	220
67	223000	ARCHITECTS AND SURVEYORS	480	490	10	2.1	40
68	223020	ARCHITECTS--EX LANDSCAPE, MARINE	240	250	10	4.2	20
70	223080	LANDSCAPE ARCHITECTS	120	130	10	8.3	10
71	223110	SURVEYING AND MAPPING SCIENTISTS	120	110	-10	-8.3	10
72	225000	ENGINEERING, RELATED TECHNICIANS	3,120	3,350	230	7.4	360
73	225020	CIVIL ENGINEERING TECHNICIANS	100	110	10	10.0	20
74	225050	ELECT, ELECTRONIC ENGINEERING TECH	1,550	1,710	160	10.3	100
76	225110	MECHANICAL ENGINEERING TECHS	280	280	0	0.0	20
77	225140	DRAFTERS	730	760	30	4.1	160
79	225210	SURVEYING AND MAPPING TECHS	150	150	0	0.0	10
80	225990	ENGINEERING, RELATED TECHS, NEC	310	340	30	9.7	50
81	240000	NAT SCIENTISTS AND RELATED WORKERS	2,530	2,570	40	1.6	470
82	241000	PHYSICAL SCIENTISTS	1,130	1,070	-60	-5.3	210
83	241020	PHYSICISTS AND ASTRONOMERS	80	80	0	0.0	20
84	241050	CHEMISTS, EXCEPT BIOCHEMISTS	210	220	10	4.8	40
86	241110	GEOLOGIST, GEOPHYS, OCEANOGRAPHERS	640	560	-80	-12.5	110
87	241990	PHYSICAL SCIENTISTS, NEC	200	210	10	5.0	40
88	243000	LIFE SCIENTISTS	590	650	60	10.2	120
91	243080	BIOLOGICAL SCIENTISTS	350	380	30	8.6	70
92	243110	MEDICAL SCIENTISTS	100	110	10	10.0	20
93	243990	LIFE SCIENTISTS, NEC	140	160	20	14.3	30

TABLE 6
OCCUPATIONAL EMPLOYMENT PROJECTIONS

SAN MATEO COUNTY 1992 - 1998

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1992	AVERAGE 1998	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
94	245000	PHYSICAL, LIFE SCIENCE TECHS	810	850	40	4.9	140
95	245020	BIOLOGICAL,AGRI, FOOD TECHS	140	170	30	21.4	30
96	245050	CHEM TECHS--EXCEPT HEALTH	380	390	10	2.6	60
99	245990	PHYSICAL, LIFE SCIENCE TECHS, NEC	290	290	0	0.0	50
100	250000	COMPUTER, MATH, OPS RESRCH, RELATED	4,250	4,730	480	11.3	370
101	251000	COMPUTER SCIENTISTS AND RELATED	3,720	4,150	430	11.6	330
102	251020	SYSTEMS ANALYSTS--ELEC DATA PROC	1,340	1,460	120	9.0	50
103	251051	COMPUTER PROGRAMMERS, INCL AIDES	2,070	2,280	210	10.1	270
105	251990	COMPUTER SCIENTISTS, REL WRKRS,NEC	310	410	100	32.3	10
106	253000	MATH SCIENTISTS AND RELATED	530	580	50	9.4	40
107	253020	OPS, SYS RESEARCHERS--EX COMPUTER	310	340	30	9.7	20
111	253150	FINANCIAL ANALYSTS, STATISTICAL	150	150	0	0.0	10
112	253190	MATHEMATICAL SCIENTISTS, NEC	70	90	20	28.6	10
114	270000	SOCIAL SCI, RECREATION, RELIGIOUS	2,760	2,930	170	6.2	220
115	271000	SOCIAL SCI--INCL URBAN, REG PLNERS	880	970	90	10.2	130
116	271020	ECONOMISTS--INCL MKT RESRCH ANALYS	540	600	60	11.1	100
117	271050	URBAN AND REGIONAL PLANNERS	100	100	0	0.0	10
118	271080	PSYCHOLOGISTS	170	180	10	5.9	10
119	271990	SOCIAL SCIENTISTS, NEC	70	90	20	28.6	10
120	273000	OTH SOCIAL SCIENCE RELATED WORKERS	1,780	1,850	70	3.9	80
121	273020	SOCIAL WORKERS--MED, PSYCHIATRIC	310	330	20	6.5	10
122	273050	SOCIAL WKRS--EX MED, PSYCHIATRIC	850	850	0	0.0	40
124	273080	HUMAN SERVICES WORKERS	310	340	30	9.7	10
125	273110	RECREATION WORKERS	310	330	20	6.5	20
126	275000	RELIGIOUS WORKERS	100	110	10	10.0	10
127	275020	CLERGY	100	110	10	10.0	10
130	280000	LAW AND RELATED OCCUPATIONS	1,300	1,350	50	3.8	100
131	281000	LAWYERS AND RELATED WORKERS	720	760	40	5.6	80
134	281080	LAWYERS	720	760	40	5.6	80
135	283000	LEGAL ASSTS, TECHS, EX CLERICAL	580	590	10	1.7	20
136	283020	LAW CLERKS	60	60	0	0.0	10
137	283050	PARALEGAL PERSONNEL	110	110	0	0.0	0
138	283080	TITLE SEARCHERS	90	90	0	0.0	0
139	283110	TITLE EXAMINERS AND ABSTRACTORS	110	110	0	0.0	0
140	283990	LEGAL ASSTS, TECHS--EX CLER, NEC	210	220	10	4.8	10

TABLE 6
OCCUPATIONAL EMPLOYMENT PROJECTIONS

SAN MATEO COUNTY 1992 - 1998

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGE 1992	1998	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
141	310000	TEACHERS, EDUCATORS, LIBRARIANS	13,440	14,680	1,240	9.2	1,160
142	311000	POST-SECONDARY TEACHERS	830	910	80	9.6	170
150	312100	SOCIAL SCIENCE TEACHERS	70	70	0	0.0	10
152	312160	ENGLISH, FOREIGN LANGUAGE TEACHERS	210	240	30	14.3	50
153	312180	ART, DRAMA, MUSIC TEACHERS	110	120	10	9.1	20
157	312990	POSTSECONDARY TEACHERS, NEC	440	480	40	9.1	90
158	313000	OTHER TEACHERS AND INSTRUCTORS	8,950	9,800	850	9.5	680
159	313020	TEACHERS, PRESCHOOL & KINDERGARTEN	780	860	80	10.3	20
160	313050	TEACHERS-ELEMENTARY SCHOOL	3,910	4,240	330	8.4	400
161	313080	TEACHERS--SECONDARY SCHOOL	1,460	1,590	130	8.9	170
162	313110	TEACHERS--SPECIAL EDUCATION	770	840	70	9.1	20
163	313140	TEACHERS-VOC ED AND TRAINING	840	930	90	10.7	30
164	313170	INSTRUCTORS-NON-VOC EDUCATION	520	570	50	9.6	20
165	313210	INSTRUCTORS AND COACHES-SPORTS	450	530	80	17.8	10
167	313990	TEACHERS AND INSTRUCTORS, NEC	220	240	20	9.1	10
168	315000	LIBRARIANS, ARCHIVISTS AND RELATED	3,660	3,970	310	8.5	310
169	315020	LIBRARIANS--PROFESSIONAL	210	210	0	0.0	30
170	315050	TECHNICAL ASSISTANTS-LIBRARY	120	120	0	0.0	10
173	315140	VOCATIONAL & EDUCATIONAL COUNSELOR	320	350	30	9.4	30
174	315170	INSTRUCTIONAL COORDINATORS	90	100	10	11.1	0
175	315211	INSTRUCTIONAL AIDES	2,920	3,190	270	9.2	240
176	320000	HEALTH PRACTITIONERS, TECHS, RELAT	10,830	11,770	940	8.7	1,110
177	321000	HEALTH DIAGNOSING, TREATING	1,730	1,910	180	10.4	250
178	321020	PHYSICIANS AND SURGEONS	810	880	70	8.6	120
179	321050	DENTISTS	360	390	30	8.3	50
180	321080	OPTOMETRISTS	230	250	20	8.7	30
182	321130	CHIROPRACTORS	80	90	10	12.5	10
183	321140	VETS AND VETERINARY INSPECTORS	250	300	50	20.0	40
185	323000	THERAPISTS	560	630	70	12.5	70
186	323020	RESPIRATORY CARE PRACTITIONERS	180	200	20	11.1	20
187	323050	OCCUPATIONAL THERAPISTS	90	90	0	0.0	10
188	323080	PHYSICAL THERAPISTS	230	270	40	17.4	30
190	323140	SPEECH PATHOLOGISTS, AUDIOLOGISTS	60	70	10	16.7	10
193	325000	HEALTH CARE MAINTENANCE, TREATING	5,780	6,180	400	6.9	540
194	325020	REGISTERED NURSES	3,530	3,700	170	4.8	280
195	325050	LICENSED VOCATIONAL NURSES	960	1,050	90	9.4	90
196	325080	EMERGENCY MEDICAL TECHNICIANS	210	240	30	14.3	10
197	325110	PHYSICIAN'S ASSISTANTS	150	160	10	6.7	10
198	325140	OPTICIANS--DISPENSING, MEASURING	290	320	30	10.3	50
199	325170	PHARMACISTS	360	410	50	13.9	60
200	325181	PHARMACY TECHNICIANS	180	190	10	5.6	30
201	325210	DIETITIANS AND NUTRITIONISTS	100	110	10	10.0	10

TABLE 6
OCCUPATIONAL EMPLOYMENT PROJECTIONS

SAN MATEO COUNTY 1992 - 1998

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGE 1992	1998	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
203	329000	OTHER HEALTH PROFS, PARAPROFS	2,760	3,050	290	10.5	250
204	329020	MED, CLINICAL LAB TECHNOLOGISTS	500	510	10	2.0	60
205	329050	MED, CLINICAL LAB ASSISTANTS	220	260	40	18.2	30
206	329080	DENTAL HYGIENISTS	360	400	40	11.1	40
207	329110	MEDICAL RECORDS TECHNICIANS	180	200	20	11.1	20
209	329170	RADIOLOGIC TECHNOLOGIST, THERAPEUTIC	150	170	20	13.3	20
210	329210	RADIOLOGIC TECHNOLOGIST, DIAGNOSTIC	190	210	20	10.5	20
215	329310	PSYCHIATRIC TECHNICIANS	90	100	10	11.1	10
217	329990	HEALTH CARE PROFS, PARAPROFS, NEC	1,070	1,200	130	12.1	50
218	340000	WRITERS, ARTISTS, ENTER, ATHLETES	2,680	2,870	190	7.1	290
219	340020	WRITERS AND EDITORS	530	560	30	5.7	50
220	340050	TECHNICAL WRITERS	230	270	40	17.4	30
221	340080	PUB REL SPECS, PUBLICITY WRITERS	180	180	0	0.0	30
222	340110	REPORTERS AND CORRESPONDENTS	70	80	10	14.3	10
226	340230	PHOTOGRAPHERS	120	130	10	8.3	20
228	340280	BROADCAST TECHNICIANS	120	110	-10	-8.3	10
230	340350	ARTISTS AND RELATED WORKERS	410	450	40	9.8	50
231	340381	FLORAL DESIGNERS	90	100	10	11.1	10
232	340382	DESIGNERS, EX INTERIOR AND FLORAL	370	400	30	8.1	30
233	340410	INTERIOR DESIGNERS	130	150	20	15.4	10
234	340440	MERCH DISPLAYERS, WINDOW TRIMMERS	280	270	-10	-3.6	20
236	340510	MUSICIANS--INSTRUMENTAL	90	90	0	0.0	10
238	340560	PRODUCERS, DIRECTORS, ACTORS	60	80	20	33.3	10
240	390000	MISC PROFS, PARAPROFS, TECHNICAL	3,310	3,580	270	8.2	290
246	399990	OTHER PROF, PARAPROF, TECHNICAL	3,310	3,580	270	8.2	290
247	400000	SALES AND RELATED OCCUPATIONS	37,280	39,680	2,400	6.4	6,950
248	410000	FIRST-LINE SUP/MGR--SALES	3,800	4,020	220	5.8	360
249	430000	SALES AGENTS--SERVICE	4,770	5,170	400	8.4	540
250	430020	SALES AGENTS, PLACERS--INSURANCE	940	1,010	70	7.4	150
251	430050	BROKERS--REAL ESTATE	60	60	0	0.0	0
252	430080	SALES AGENTS--REAL ESTATE	170	170	0	0.0	10
253	430110	APPRAISERS--REAL ESTATE	190	190	0	0.0	20
254	430140	SALES AGENTS--FINANCIAL SERVICES	1,160	1,340	180	15.5	80
255	430170	SALES AGENTS--SEL BUS SERVICES	1,250	1,300	50	4.0	80
256	430210	TRAVEL AGENTS	450	500	50	11.1	110
257	430230	SALES AGENTS--ADVERTISING	250	270	20	8.0	20
258	430990	SALES REPS, SERVICE--NEC	300	330	30	10.0	70

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SAN MATEO COUNTY 1992 - 1998

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGE 1992	1998	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
259	490000	MERCH, PRODUCTS AND OTHER SALES	28,710	30,490	1,780	6.2	6,050
260	490020	SALES ENGINEERS	320	370	50	15.6	40
261	490050	SALES REPS, SCIENTIFIC--EX RETAIL	1,750	1,910	160	9.1	230
262	490080	SALES REPS, NON-SCIENTIFIC EX RETAIL	4,540	4,810	270	5.9	580
263	490111	VEHICLE SALESPERSONS - RETAIL	520	530	10	1.9	120
264	490112	SALESPERSONS - RETAIL(NON-VEHICLE)	10,860	11,260	400	3.7	2,550
265	490140	SALESPERSONS-PARTS	650	670	20	3.1	120
266	490170	COUNTER AND RENTAL CLERKS	1,000	1,060	60	6.0	90
267	490210	STOCK CLERKS--SALES FLOOR	2,110	2,260	150	7.1	490
268	490230	CASHIERS	5,210	5,700	490	9.4	1,590
269	490260	TELEMARKETERS, SOLICITORS & RELATED	270	300	30	11.1	40
270	490320	DEMONSTRATORS, PROMOTERS, MODELS	200	250	50	25.0	30
271	499990	SALES AND RELATED WORKERS, NEC	1,280	1,370	90	7.0	170
272	500000	CLERICAL, ADMINISTRATIVE SUPPORT	60,930	64,310	3,380	5.5	7,500
273	510000	FIRST-LINE SUP/MGR, CLERL, ADM SUP	4,120	4,270	150	3.6	570
274	530000	INDUSTRY SPECIFIC CLERICAL, ADMIN	9,000	9,160	160	1.8	1,090
275	531000	BANKING, SECURITY, FINANCE, CREDIT	4,070	3,740	-330	-8.1	640
276	531020	TELLERS	1,750	1,370	-380	-21.7	470
277	531050	NEW ACCOUNTS CLERKS	190	160	-30	-15.8	30
281	531170	CREDIT CHECKERS	170	180	10	5.9	10
282	531210	LOAN AND CREDIT CLERKS	300	280	-20	-6.7	10
283	531230	ADJUSTMENT CLERKS	1,230	1,310	80	6.5	70
285	531280	BROKERAGE CLERKS	430	440	10	2.3	50
286	533000	INSURANCE WORKERS	1,180	1,250	70	5.9	50
287	533020	INS ADJUST, EXAMIN, INVESTIGATORS	370	400	30	8.1	20
290	533110	INSURANCE CLAIMS CLERKS	370	390	20	5.4	20
291	533140	INSURANCE POLICY PROCESSING CLERKS	440	460	20	4.5	10
292	535000	INVESTIGATIVE, RELATED, EX INSUR	920	960	40	4.3	90
293	535020	WELFARE ELIG WORKERS, INTERVIEWERS	360	350	-10	-2.8	60
295	535080	BILL AND ACCOUNT COLLECTORS	560	610	50	8.9	30
296	537000	MUNICIPAL WORKERS	280	270	-10	-3.6	10
297	537020	COURT CLERKS	280	270	-10	-3.6	10
300	538000	LODGING AND TRAVEL WORKERS	2,170	2,560	390	18.0	220
302	538050	RESERVATION, TRANS TICKET AGENTS	1,810	2,170	360	19.9	180
303	538080	HOTEL DESK CLERKS	360	390	30	8.3	40
304	539000	MISC INDUSTRY SPECIFIC CLERICAL	380	380	0	0.0	80
305	539020	LIBRARY ASSTS & BOOKMOBILE DRIVERS	270	270	0	0.0	70
308	539140	REAL ESTATE CLERKS	110	110	0	0.0	10

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OCCUPATIONAL EMPLOYMENT PROJECTIONS

SAN MATEO COUNTY 1992 - 1998

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1992	AVERAGE 1998	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
309	550000	SECRETARIAL, GENERAL OFFICE OCCS	31,860	33,800	1,940	6.1	4,050
310	551000	SECRETARIES	8,060	8,650	590	7.3	1,150
311	551020	SECRETARIES, LEGAL	420	460	40	9.5	60
312	551050	SECRETARIES, MEDICAL	460	500	40	8.7	70
313	551080	SECRETARIES, GENERAL	7,180	7,690	510	7.1	1,020
314	553000	MISC SECRETARIAL, GENL OFF OCCS	23,800	25,150	1,350	5.7	2,900
315	553020	STENOGRAPHERS	180	170	-10	-5.6	20
316	553050	RECEPTIONISTS, INFORMATION CLERKS	3,080	3,410	330	10.7	310
317	553070	TYPISTS, INCLUDING WORD PROCESSING	2,150	2,340	190	8.8	270
318	553140	PERS CLERKS--EX PAYROLL	320	330	10	3.1	50
320	553210	FILE CLERKS	700	750	50	7.1	200
321	553230	ORDER CLERKS-MATERIALS, SERVICE	1,230	1,300	70	5.7	190
322	553260	PROCUREMENT CLERKS	270	240	-30	-11.1	30
323	553280	STATISTICAL CLERKS	150	140	-10	-6.7	20
324	553320	INTERVIEW CLERKS--EX PERS. WELFARE	230	240	10	4.3	40
325	553350	CUSTOMER SERVICE REPS-UTILITIES	120	100	-20	-16.7	20
326	553380	BOOKKEEPING, ACCOUNTING CLERKS	5,890	5,970	80	1.4	720
327	553410	PAYROLL AND TIMEKEEPING CLERKS	480	490	10	2.1	100
328	553440	BILLING, COST, AND RATE CLERKS	970	1,000	30	3.1	200
329	553470	GENERAL OFFICE CLERKS	8,030	8,670	640	8.0	730
330	560000	EDP AND OFFICE MACHINE OCCUPATIONS	2,890	3,130	240	8.3	320
331	560020	BILLING, POSTING, CALC MACHINE OPS	200	210	10	5.0	60
332	560050	DUPPLICATING MACHINE OPERATORS	70	80	10	14.3	20
333	560080	MAIL MACH OPS-PREP AND HANDLING	150	170	20	13.3	30
334	560110	COMPUTER OPS--EX PERIPHERAL EQUIP	900	950	50	5.6	40
335	560140	PERIPHERAL EDP EQUIPMENT OPERATORS	70	70	0	0.0	0
336	560170	DATA ENTRY KEYERS--EX COMPOSING	1,170	1,290	120	10.3	100
338	560990	OFFICE MACHINE OPERATORS, NEC	330	360	30	9.1	70
339	570000	COMMUNICATIONS, MAIL DISTRIBUTION	2,600	2,550	-50	-1.9	370
340	571000	COMMUNICATION EQUIPMENT OPERATORS	780	760	-20	-2.6	130
341	571020	SWITCHBOARD OPERATORS	710	720	10	1.4	120
343	571080	CENTRAL OFFICE OPERATORS	70	40	-30	-42.9	10
346	573000	MAIL, MESSAGE DISTRIBUTION WORKERS	1,820	1,790	-30	-1.6	240
347	573020	MAIL CLKS-EX MAIL MACH OPS, POSTAL	220	240	20	9.1	50
348	573050	POSTAL MAIL CARRIERS	800	820	20	2.5	90
349	573080	POSTAL SERVICE CLERKS	260	150	-110	-42.3	20
350	573110	MESSENGERS	540	580	40	7.4	80

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SAN MATEO COUNTY 1992 - 1998

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1992	ANNUAL 1998	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
351	580000	MATERIAL RECORDING, DISPATCHING	8,720	9,550	830	9.5	1,020
352	580020	DISPATCH--POLICE, FIRE, AMBULANCE	80	80	0	0.0	10
353	580050	DISPATCH--EX POLICE, FIRE, AMBUL	520	570	50	9.6	60
354	580080	PROD, PLANNING, EXPEDITING CLERKS	870	980	110	12.6	130
355	580110	TRANSPORTATION AGENTS	610	960	350	57.4	60
356	580140	METER READERS--UTILITIES	160	120	-40	-25.0	20
358	580210	MARKING CLERKS	80	70	-10	-12.5	10
359	580230	STOCK CLERKS--STOCKROOM, WAREHOUSE	3,050	3,310	260	8.5	410
360	580260	ORDER FILLERS--WHLE & RET SALES	700	730	30	4.3	110
361	580280	TRAFFIC, SHIPPING, RECEIVING CLKS	2,400	2,450	50	2.1	180
362	580990	MATERIAL RECORDING, RELATED, NEC	250	280	30	12.0	30
363	590000	CLERICAL, ADMIN SUPPORT, NEC	1,740	1,850	110	6.3	80
365	600000	SERVICE OCCUPATIONS	43,230	46,470	3,240	7.5	9,740
366	610000	FIRST-LINE SUP/MGR--SERVICE	1,780	1,870	90	5.1	220
367	610020	FIRE FIGHTING & PREVENTION SUPS	120	110	-10	-8.3	20
368	610050	POLICE AND DETECTIVE SUPERVISORS	130	120	-10	-7.7	30
369	610080	HOUSEKEEPING SUPERVISORS	350	380	30	8.6	50
370	610990	FIRST-LINE SUP/MGR SERV WKRS, NEC	1,180	1,260	80	6.8	120
371	630000	PROTECTIVE SERVICE OCCUPATIONS	3,230	3,470	240	7.4	620
374	630080	FIRE FIGHTERS	230	230	0	0.0	40
376	630140	POLICE PATROL OFFICERS	330	320	-10	-3.0	60
377	630170	CORRECTION OFFICERS, JAILERS	160	180	20	12.5	10
382	630320	SHERIFFS AND DEPUTY SHERIFFS	590	560	-30	-5.1	90
383	630350	DETECTIVES, INVESTIGATORS--EX PUB	150	150	0	0.0	20
387	630470	GUARDS AND WATCH GUARDS	1,520	1,750	230	15.1	230
388	630990	PROTECTIVE SERVICE WORKERS, NEC	250	280	30	12.0	170
389	650000	FOOD, BEV PREP AND SERVICE OCCS	20,700	21,950	1,250	6.0	6,830
390	650020	HOSTS, HOSTesses--RESTAURANTS	580	590	10	1.7	50
391	650050	BARTENDERS	750	750	0	0.0	160
392	650080	WAITERS AND WAITRESSES	5,030	5,280	250	5.0	1,480
393	650110	FOOD SERVERS--OUTSIDE	190	200	10	5.3	130
394	650140	DINING RM ATTENDANTS, BAR HELPERS	1,160	1,230	70	6.0	550
395	650170	COUNTER ATTENDANTS--FOOD	1,080	1,160	80	7.4	790
396	650210	BAKERS--BREAD AND PASTRY	380	410	30	7.9	70
397	650230	BUTCHERS AND MEAT CUTTERS	530	530	0	0.0	90
398	650260	COOKS--RESTAURANT	1,760	1,900	140	8.0	330
399	650280	COOKS--INSTITUTION OR CAFETERIA	510	540	30	5.9	100
400	650320	COOKS--SPECIALTY FAST FOOD	1,060	1,100	40	3.8	500
401	650350	COOKS--SHORT ORDER	480	500	20	4.2	230
402	650380	FOOD PREPARATION WORKERS	3,760	3,960	200	5.3	1,220
403	650410	COMBINED FOOD PREP AND SERVICE	2,250	2,370	120	5.3	730
404	650990	FOOD SERVICE WORKERS, NEC	1,180	1,430	250	21.2	400

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405	660000	HEALTH SERVICE, RELATED OCCS	3,530	3,930	400	11.3	290
406	660020	DENTAL ASSISTANTS	590	650	60	10.2	80
407	660050	MEDICAL ASSISTANTS	570	640	70	12.3	30
408	660080	NURSE AIDES, ORDERLIES, ATTENDANTS	1,660	1,820	160	9.6	130
409	660110	HOME HEALTH CARE WORKERS	180	230	50	27.8	20
410	660140	PSYCHIATRIC AIDES	70	70	0	0.0	10
411	660170	PHYSICAL THERAPY ASSISTANTS & AIDE	180	210	30	16.7	10
415	660990	HEALTH SERVICE WORKERS, NEC	280	310	30	10.7	10
416	670000	CLEANING, BLDING SERV EX PRIV HOUS	6,430	7,110	680	10.6	850
417	670020	MAIDS AND HOUSEKEEPING CLEANERS	1,520	1,610	90	5.9	140
418	670050	JANITORS, CLEANERS-EXCEPT MAIDS	4,280	4,770	490	11.4	620
419	670080	PEST CONTROLLERS AND ASSISTANTS	110	130	20	18.2	20
421	670990	CLEANING, BLDING SERV-EX PH, NEC	520	600	80	15.4	70
422	680000	MISC PERSONAL SERVICE OCCUPATIONS	6,930	7,340	410	5.9	860
423	680020	BARBERS	60	60	0	0.0	10
424	680050	HAIRDRESSERS, HAIRSTYLISTS	1,090	1,120	30	2.8	70
425	680080	MANICURISTS	70	70	0	0.0	0
427	680140	AMUSEMENT, RECREATION ATTENDANTS	430	500	70	16.3	150
429	680210	USHERS, LOBBY ATTENDANTS	170	170	0	0.0	50
430	680230	BAGGAGE PORTERS AND BELLHOPS	150	160	10	6.7	20
431	680260	FLIGHT ATTENDANTS	4,600	4,860	260	5.7	540
434	680350	PERSONAL AND HOME CARE AIDES	100	110	10	10.0	10
435	680380	CHILD CARE WORKERS	260	290	30	11.5	10
437	690000	MISC SERVICE WORKERS	630	800	170	27.0	70
438	700000	AGRICULTURAL, FORESTRY, FISHING	2,690	2,950	260	9.7	320
447	790000	MISC AG, FORESTRY, FISHING	2,690	2,950	260	9.7	320
449	790050	NURSERY WORKERS	210	240	30	14.3	40
452	790140	GARDENERS, GROUNDSKEEPERS-EX FARM	2,030	2,240	210	10.3	200
453	790170	ANIMAL CARETAKERS-EXCEPT FARM	160	160	0	0.0	20
455	790990	OTHER AG, FORESTRY, FISHING	290	310	20	6.9	60
458	800000	PROD, CONST, OPER, MAT HANDLING	65,480	69,810	4,330	6.6	8,150
459	810000	FIRST-LINE SUP/MGR-BLUE COLLAR	3,210	3,400	190	5.9	510
460	810020	FIRST-LINE SUP/MGR-MECH, REPAIRERS	1,000	1,070	70	7.0	200
461	810050	FIRST-LINE SUP/MGR-CONSTRUCTION	540	550	10	1.9	70
462	810080	FIRST-LINE SUP/MGR-PRODUCTION	720	730	10	1.4	120
463	810110	FIRST-LINE SUP/MGR-TRANSPORTATION	170	230	60	35.3	30
464	810170	FIRST-LINE SUP/MGR-HELP, LABORERS	370	390	20	5.4	50
465	810990	FIRST-LINE SUP/MGR-BLUE COLLAR NEC	410	430	20	4.9	40

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466	830000	INSPECTORS, RELATED OCCUPATIONS	1,830	1,970	140	7.7	250
467	830020	INSPECTORS, TESTERS, & GRADERS, PRECI	350	370	20	5.7	50
468	830050	PROD INSPECTORS, TESTERS, & GRADER	720	740	20	2.8	100
470	830990	INSPECTORS, TESTERS, RELATED, NEC	760	860	100	13.2	100
471	850000	MECHANICS, INSTALLERS, REPAIRERS	15,360	16,300	940	6.1	1,880
472	851000	MACHINERY AND RELATED MECHANICS	3,300	3,490	190	5.8	290
477	851180	MAINT MECHANICS--WATER, POWER	50	50	0	0.0	10
478	851190	MACHINERY MAINT MECHANICS, NEC	320	330	10	3.1	40
479	851230	MILLWRIGHTS	50	60	10	20.0	10
482	851320	MAINT REPAIRERS, GENL UTILITY	2,880	3,050	170	5.9	230
483	853000	MOBILE EQUIP MECHANICS, REPAIRERS	8,780	9,410	630	7.2	1,230
484	853020	AUTOMOTIVE MECHANICS	1,630	1,700	70	4.3	290
485	853050	AUTOMOTIVE BODY, RELATED REPAIRERS	520	550	30	5.8	90
487	853110	BUS AND TRUCK MECHANICS	450	480	30	6.7	80
488	853140	MOBILE HEAVY EQUIP MECH--EX ENGINE	120	120	0	0.0	20
494	853990	MECHANICS, NEC	6,060	6,560	500	8.3	750
495	855000	COMM EQUIPMENT MECHANICS	340	350	10	2.9	30
502	857000	OTHER ELECTRICAL EQUIP MECHANICS	1,130	1,120	-10	-0.9	110
503	857020	TELEPHONE, CABLE TV INSTALLERS	220	180	-40	-18.2	20
504	857050	DATA PROCESSING EQUIP REPAIRERS	320	390	70	21.9	10
505	857080	ELECT HOME ENTERTAINMENT REPAIRERS	130	140	10	7.7	10
506	857111	HOME APPLIANCE AND POWERTOOLREPAIR	80	80	0	0.0	20
508	857170	ELECT REPAIRERS--COMMERCIAL	180	180	0	0.0	20
510	857230	ELECT POWERLINE INSTALLERS	110	90	-20	-18.2	20
511	857260	STATION INSTALLERS--TELEPHONE	90	60	-30	-33.3	10
514	859000	MISC MECH, INSTALLERS, REPAIRERS	1,810	1,930	120	6.6	220
515	859020	HEATING, AC, REFRIG MECHANICS	390	390	0	0.0	20
516	859050	INSTRUMENT REPAIRERS, PRECISION	150	160	10	6.7	20
523	859260	OFF MACH, CASH REGISTER SERVICERS	220	220	0	0.0	30
527	859380	INSTALLER & REPAIRER, MOBILE HOME	50	60	10	20.0	0
530	859530	TIRE REPAIRERS AND CHANGERS	200	200	0	0.0	60
532	859990	MECHS, INSTALLERS, REPAIRERS, NEC	800	900	100	12.5	90
533	870000	CONSTRUCTION TRADES	6,150	6,350	200	3.3	740
534	871000	CARPENTERS AND RELATED WORKERS	2,010	2,120	110	5.5	200
535	871020	CARPENTERS	1,730	1,840	110	6.4	180
537	871080	DRYWALL INSTALLERS	120	120	0	0.0	10
538	871110	TAPERS	50	50	0	0.0	0
539	871140	LATHERS	110	110	0	0.0	10
541	872000	ELECTRICIANS AND RELATED WORKERS	760	760	0	0.0	90
542	872020	ELECTRICIANS	760	760	0	0.0	90

TABLE 6
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SAN MATEO COUNTY 1992 - 1998

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGE 1992	1998	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
543	873000	MASONS AND RELATED WORKERS	440	450	10	2.3	90
544	873020	BRICK MASONS	60	60	0	0.0	10
547	873110	CONCRETE AND TERRAZZO FINISHERS	320	330	10	3.1	70
549	873170	PLASTERERS AND STUCCO MASONS	60	60	0	0.0	10
550	874000	PAINTERS AND RELATED WORKERS	670	690	20	3.0	80
551	874020	PAINTERS, PAPERHANGERS--CONST	670	690	20	3.0	80
552	875000	PLUMBERS AND RELATED WORKERS	980	990	10	1.0	120
553	875020	PLUMBERS, PIPEFITTERS, STEAMFITTER	930	930	0	0.0	120
555	875080	PIPELAYERS	50	60	10	20.0	0
557	876000	CARPET, FLOOR INSTALLERS	230	230	0	0.0	30
558	876020	CARPET INSTALLERS	170	170	0	0.0	20
559	876050	FLOOR LAYERS--EX CARPET,WOOD,TILES	60	60	0	0.0	10
561	877000	SELECTED ROAD, RAIL AND RELATED	230	230	0	0.0	30
564	877080	PAVING, TAMING-EQUIP OPERATORS	130	130	0	0.0	20
565	877110	HIGHWAY MAINTENANCE WORKERS	100	100	0	0.0	10
567	878000	CONSTRUCTION TRADES, NEC	580	610	30	5.2	70
569	878050	SHEET METAL DUCT INSTALLERS	90	90	0	0.0	10
570	878080	ROOFERS	230	230	0	0.0	20
571	878110	GLAZIERS	120	130	10	8.3	20
573	878170	FENCE ERECTORS	70	70	0	0.0	10
574	878990	CONSTRUCTION TRADES WORKERS, NEC	70	90	20	28.6	10
575	879000	EXTRACTIVE AND RELATED WORKERS	250	270	20	8.0	30
588	879990	CONST, EXTRACTIVE--EX HELPERS, NEC	250	270	20	8.0	30
589	890000	PRODUCTION OCCUPATIONS, PRECISION	4,470	4,750	280	6.3	790
590	891000	METAL WORKERS, PRECISION	1,770	1,850	80	4.5	300
591	891020	TOOL AND DIE MAKERS	130	130	0	0.0	20
593	891080	MACHINISTS	1,140	1,200	60	5.3	180
598	891230	JEWELERS AND SILVERSMITHS	80	90	10	12.5	20
601	891320	SHEET METAL WORKERS	420	430	10	2.4	80
604	893000	WOODWORKERS, PRECISION	340	370	30	8.8	90
608	893110	CABINETMAKERS AND BENCH CARPENTERS	240	250	10	4.2	60
609	893140	FURNITURE FINISHERS	100	120	20	20.0	30
611	895000	TEXTILE, APPAREL, FURNISHINGS,PREC	380	390	10	2.6	50
613	895050	CUSTOM TAILORS AND SEWERS	120	120	0	0.0	20
614	895080	UPHOLSTERERS	130	130	0	0.0	20
617	895170	PRESSERS--DELICATE FABRICS	130	140	10	7.7	10
620	897000	PRINTING WORKERS, PRECISION	300	320	20	6.7	50
623	897060	PASTE UP WORKERS	90	90	0	0.0	20
627	897130	CAMERA OPERATORS	60	60	0	0.0	10
629	897170	STRIPPERS	150	170	20	13.3	20

TABLE 6
OCCUPATIONAL EMPLOYMENT PROJECTIONS

SAN MATEO COUNTY 1992 - 1998

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGE		ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
			1992	1998			
634	898000	FOOD WORKERS, PRECISION	310	320	10	3.2	40
636	898050	BAKERS--MANUFACTURING	220	230	10	4.5	20
637	898080	FOOD BATCHMAKERS	90	90	0	0.0	20
639	899000	OTHER PRECISION WORKERS	1,370	1,500	130	9.5	260
646	899210	DENTAL LAB TECHNICIANS, PRECISION	160	170	10	6.3	30
649	899990	WORKERS, PRECISION--NEC	1,210	1,330	120	9.9	230
650	910000	MACH SETTERS, SET-UP, OPS, TENDERS	5,840	5,950	110	1.9	770
651	911000	MACH TOOL CUTTING--METAL, PLASTIC	320	310	-10	-3.1	30
656	911140	GRINDING MACH SETTER--METAL,PLASTI	100	100	0	0.0	10
657	911170	MACH TOOL CUTTING OPS--METAL,PLAST	220	210	-10	-4.5	20
658	913000	MACH FORMING SETTERS--METAL,PLASTI	200	190	-10	-5.0	40
660	913050	PRESS MACH SETTERS--METAL, PLASTIC	60	60	0	0.0	10
665	913210	MACH FORMING OPS,TENDRS--MET, PLAS	140	130	-10	-7.1	30
666	915000	MACH TOOL SETTERS, OPS--METAL,PLAS	150	150	0	0.0	30
667	915020	NUMERICAL MACH TOOL OPS--MET, PLAS	100	100	0	0.0	20
668	915050	COMB MACH TOOL SETTERS--MET, PLAST	50	50	0	0.0	10
670	917000	METAL FABRICATING MACH SETTERS,OPS	210	230	20	9.5	30
672	917050	WELDING MACH OPERATORS AND TENDERS	60	70	10	16.7	10
674	917110	SOLDERING, BRAZING MACH OPS,TENDRS	150	160	10	6.7	20
676	919000	METAL, PLAST PROCESS MACH SETTERS	1,010	940	-70	-6.9	160
678	919050	PLASTIC MOLDING, CASTING MACH OPS	90	70	-20	-22.2	20
683	919210	ELECTROLYTIC PLATING, MACH OPS	60	50	-10	-16.7	10
690	919990	MISC METAL, PLAST MACH SETTERS OPS	860	820	-40	-4.7	130
700	925000	PRINTING, BINDING, RELATED WORKERS	950	990	40	4.2	110
702	925120	OFFSET LITHOGRAPHIC PRESS SETTERS	280	310	30	10.7	30
704	925190	PRINT PRESS SETTERS, SET-UP OPS NE	80	80	0	0.0	10
706	925220	SPEC MATERL PRINTING MACH SETTERS	60	50	-10	-16.7	10
708	925250	BINDERY MACH SETTERS, SET-UP OPS	150	160	10	6.7	20
711	925430	PRINTING PRESS MACHINE OPS, TENDER	290	300	10	3.4	30
713	925460	BINDERY MACHINE OPERATORS	90	90	0	0.0	10
715	927000	TEXTILE, RELATED SETTERS, OPS	940	980	40	4.3	120
721	927170	SEWING MACHINE OPERATORS--GARMENT	370	380	10	2.7	50
722	927210	SEWING MACHINE OPS--NON-GARMENT	160	170	10	6.3	20
724	927260	LNDRY, DRYCLEAN MACH OPS--EX PRESS	290	300	10	3.4	30
725	927280	PRESSING MACH OPS--TEXTILE, GARMEN	120	130	10	8.3	20

TABLE 6
OCCUPATIONAL EMPLOYMENT PROJECTIONS

SAN MATEO COUNTY 1992 - 1998

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL AVERAGE 1992	1998	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
726	929000	MACH SETTER,SET-UP,OP--EX MET,PLAS	2,060	2,160	100	4.9	250
729	929080	PHOTOGRAPHIC PROC MACH OPS,TNDRS	70	80	10	14.3	20
731	929140	PAPER GOODS MACH SETTERS,SET-UP OP	50	50	0	0.0	10
741	929440	CUTTING, SLICING MACH OPS, TNDRS	100	90	-10	-10.0	10
742	929470	PAINTERS, TRANSPORTATION EQUIP	70	70	0	0.0	10
743	929510	PAINT, COAT & SPRAY MACH SETTERS	60	60	0	0.0	10
744	929530	PAINTING, REL MACH OPS, TENDERS	60	60	0	0.0	10
748	929650	CRUSHING, MIXING MACH OPS, TNDRS	220	220	0	0.0	30
751	929740	PACKAGING, FILLING MACH OPS, TNDRS	750	800	50	6.7	80
752	929970	MACHINE SETTERS & SET-UP OPS, NEC	90	90	0	0.0	10
753	929980	MACHINE OPERATORS AND TENDERS, NEC	590	640	50	8.5	60
754	930000	ASSEMBLERS AND FABRICATORS-HAND	4,260	4,350	90	2.1	440
755	931000	ASSEMBLERS, PRECISION	570	600	30	5.3	80
757	931050	MACH BLDR, OTH PREC MACH ASSEMBLER	130	140	10	7.7	30
759	931110	ELECTROMECH EQUIP ASSEMBLERS-PREC	100	100	0	0.0	10
760	931140	ELECTRICAL EQUIP ASSEMBLERS--PREC	340	360	20	5.9	40
763	939000	OTHER HAND WORKERS	3,690	3,750	60	1.6	360
765	939050	ELECTRICAL, ELECTRONIC ASSEMBLERS	590	570	-20	-3.4	50
768	939140	WELDERS AND CUTTERS	340	350	10	2.9	50
772	939260	CUTTERS AND TRIMMERS-HAND	70	70	0	0.0	10
775	939350	CANNERY WORKERS	80	80	0	0.0	10
781	939530	GRINDING, POLISHING WORKERS-HAND	110	110	0	0.0	10
782	939560	ASSEMBL, FABRICATORS-EX MACH,ELECT	1,790	1,790	0	0.0	150
783	939990	HAND WORKERS, NEC	710	780	70	9.9	80
784	950000	PLANT AND SYSTEM OCCUPATIONS	300	280	-20	-6.7	50
785	950020	WATER TREATMENT PLANT OPERATORS	60	60	0	0.0	10
791	950210	POWER PLANT OPS--EX AUXILIARY EQUI	100	80	-20	-20.0	10
795	950320	STATIONARY ENGINEERS	140	140	0	0.0	30
797	970000	TRANS, MATERIAL MOVING MACHINE OPS	12,360	13,580	1,220	9.9	1,330
798	971000	MOTOR VEHICLE OPERATORS	7,710	8,390	680	8.8	590
799	971020	TRUCK DRIVERS, HEAVY	1,700	1,820	120	7.1	270
800	971050	TRUCK DRIVERS, LIGHT	3,450	3,740	290	8.4	40
801	971080	BUS DRIVERS	570	600	30	5.3	40
802	971110	BUS DRIVERS-SCHOOL	380	430	50	13.2	30
803	971140	TAXI DRIVERS AND CHAUFFEURS	240	290	50	20.8	10
804	971170	DRIVERS/SALES WORKERS	790	870	80	10.1	130
805	971990	MOTOR VEHICLE OPERATORS, NEC	580	640	60	10.3	70
822	977000	AIR TRANSPORTATION WORKERS	2,670	3,000	330	12.4	410
823	977020	AIRCRAFT PILOTS, FLIGHT ENGINEERS	2,670	3,000	330	12.4	410
824	978000	MISC TRANSPORTATION WORKERS	790	930	140	17.7	200
826	978050	SERVICE STATION ATTENDANTS	480	490	10	2.1	150
827	978080	PARKING LOT ATTENDANTS	150	160	10	6.7	20
828	978990	TRANS AND RELATED WORKERS, NEC	160	280	120	75.0	30

TABLE 6
OCCUPATIONAL EMPLOYMENT PROJECTIONS

SAN MATEO COUNTY 1992 - 1998

LINE #	CA OES CODE	OCCUPATIONAL TITLE	ANNUAL 1992	ANNUAL 1998	ABSOLUTE CHANGE	PERCENT CHANGE	OPENINGS DUE TO SEPARATIONS
829	979000	MATERIAL MOVEMENT EQUIP OPERATORS	1,190	1,260	70	5.9	130
837	979230	EXCAVATING, LOADING MACHINE OPS	70	70	0	0.0	10
842	979380	GRADER, DOZER, SCRAPER OPERATORS	140	140	0	0.0	20
845	979470	INDUSTRIAL TRUCK,TRACTOR OPERATORS	590	640	50	8.5	70
848	979560	OPERATING ENGINEERS	210	220	10	4.8	20
849	979890	MATERIAL MOVING EQUIP OPS, NEC	180	190	10	5.6	10
851	980000	HELPERS, LABORERS, HAND--EX AG	11,700	12,880	1,180	10.1	1,390
852	981000	MECHANIC AND REPAIRER HELPERS	390	400	10	2.6	80
853	981020	MECHANIC AND REPAIRER HELPERS, NEC	390	400	10	2.6	80
854	983000	CONST TRADES, EXTRACTIVE--HELPERS	1,020	1,030	10	1.0	290
855	983110	HELPERS--BRICK,STONE MASONS	80	80	0	0.0	20
856	983120	HELPERS--CARPENTERS AND RELATED	420	430	10	2.4	120
857	983130	HELPERS--ELECT, POWERLINE INSTALL	60	60	0	0.0	20
858	983140	HELPERS--PAINTERS AND RELATED	70	70	0	0.0	20
859	983150	HELPERS--PLUMBERS AND RELATED	130	130	0	0.0	40
860	983160	HELPERS--ROOFERS	80	80	0	0.0	20
861	983190	HELPERS--CONSTRUCTION TRADES, NEC	100	100	0	0.0	30
862	983230	HELPERS--EXTRACTIVE WORKERS	80	80	0	0.0	20
863	985000	MACHINE FEEDERS AND OFFBEARERS	430	430	0	0.0	70
864	985020	MACHINE FEEDERS AND OFFBEARERS, NE	430	430	0	0.0	70
865	987000	FREIGHT, STOCK, MAT MOVERS, HAND	2,060	2,180	120	5.8	210
867	987050	REFUSE COLLECTORS	480	490	10	2.1	60
868	987990	FREIGHT, MATERIAL MOVERS-HAND, NEC	1,580	1,690	110	7.0	150
869	989000	MISC HELPERS, LABORERS--HAND	7,800	8,840	1,040	13.3	740
870	989020	HAND PACKERS AND PACKAGERS	1,620	1,750	130	8.0	200
871	989050	VEHICLE WASHERS, EQUIP CLEANERS	1,140	1,260	120	10.5	110
872	989990	MISC HELPERS, LABORERS--HAND, NEC	5,040	5,830	790	15.7	430
873		OCCUPATIONS NOT CLASSIFIED	490	570	80	16.3	

DESCRIPTION OF TABLES

Table 1 -- EMPLOYMENT BY MAJOR INDUSTRY

This table shows 1986 and 1992 estimated employment and 1998 projected employment along with the percentage of total employment for each major industry division.

EMPLOYMENT includes nonagricultural wage and salary workers except for self-employed persons, unpaid family workers, private household workers, and those involved in labor-management trade disputes. For the government sector, employment includes all civilian employees regardless of the activities in which they are engaged. With the exception of government, industries are classified by the Standard Industrial Classification (SIC) system.

INDUSTRY is a group of firms that engage in similar economic activities. The Standard Industrial Classification (SIC) system was used to categorize industries.

INDUSTRY DIVISIONS group industries into nine major categories, according to the economic activity involved. An industry division refers to a distinct group of private, public, or nonprofit enterprises engaged in producing goods or providing services.

The nine industry divisions are defined as follows:

MINING (SIC 10-14) includes all establishments involved in the extraction of minerals, crude petroleum, and natural gas. It includes quarrying, well operations, milling, and other related activities.

CONSTRUCTION (SIC 15-17) includes establishments engaged in contract construction. This includes new work, additions, alterations, and repairs performed by general and special trade contractors.

MANUFACTURING (SIC 20-39) includes establishments which are usually described as plants, factories, or mills that are engaged in producing or processing non-durable or durable goods. These characteristically use power-driven machines and material-handling equipment.

TRANSPORTATION AND PUBLIC UTILITIES (SIC 40-49) includes enterprises engaged in passenger and freight transportation by surface, water, and air and warehousing and other transportation services. It also includes the communications complex of telephone, telegraph, radio, and television; and the utilities providing gas, electric, and sanitary services.

WHOLESALE TRADE (SIC 50-51) includes establishments involved in the selling of merchandise to retailers; to industrial, commercial, farm, construction contractors, or professional business users; or to other wholesalers.

RETAIL TRADE (SIC 52-59) includes establishments involved in the selling of merchandise for personal or household consumption and rendering services incidental to the sale of goods.

FINANCE, INSURANCE, AND REAL ESTATE (SIC 60-67) includes banks, savings and loan institutions, and security and commodity brokerages, insurance agencies and carriers, real estate sales and management offices, and rental and planning agencies.

SERVICES (SIC 70-89,074,075,078) includes establishments such as hotels, laundries, auto repair shops, theaters, legal services, advertising services, private schools and hospitals, and nonprofit organizations which are engaged in rendering a variety of services to individuals and businesses.

GOVERNMENT includes the legislative, judicial, administrative, and regulatory activities of federal, state, local, and international governments. It also includes federal, state, and local government hospitals and education.

Table 2 -- EMPLOYMENT BY INDUSTRY

This table shows employment and projected employment by industry. The number of jobs is estimated for 1992 and projected for 1998. The column entitled "S/C" lists the Standard Industrial Classification code for each industry grouping. The column labeled "*Absolute Change*" provides the projected change in employment between 1992 and 1998. The "*Percent Change*" column is the estimated growth rate over the six-year period.

Table 3 -- EMPLOYMENT BY MAJOR OCCUPATIONAL GROUP

This table shows 1992 and 1998 employment and projected employment for the seven major occupational groups. The "*Percent of Total*" column displays the percentage of total employment each major occupational group represents. The "*Absolute Change*" column gives the number of job opportunities resulting from the creation of new jobs. "*Percent Change*" shows the percentage change for each occupational group.

OCCUPATIONAL GROUPS are groups of occupations with similar skills and/or educational requirements, based on the OES groupings. There are over 700 detailed occupations and close to 100 summary level occupations in the Occupational Employment Statistics (OES) classification system.

The seven major occupational groups are defined as follows:

MANAGERS AND ADMINISTRATIVE occupations are top and mid-level managers, administrators, and executives. Primary duties are policy making, planning, staffing, directing, or controlling the activities of a firm. First-line supervisors are excluded from this category.

PROFESSIONAL, PARAPROFESSIONAL, AND TECHNICAL occupations are concerned with theoretical or practical aspects of such fields as science, art, education, health, law, and business relations. Professional occupations generally require long and intensive preparation, while technical occupations work closely with professional personnel and are required to have a combination of basic scientific knowledge and specialized education.

SALES AND RELATED occupations are concerned with influencing customers to buy commodities, services, real estate, and investments.

CLERICAL AND ADMINISTRATIVE SUPPORT occupations prepare, transcribe, systematize, and preserve written communications and records; distribute information; and collect accounts.

SERVICE OCCUPATIONS prepare and serve food and drink; provide lodging and related services; provide grooming, cosmetic, and other personal and health care services; maintain and clean clothing and other wearing apparel; provide protection for people and property; attend to the comfort or requests of patrons of amusement and recreation facilities; and perform cleaning and maintenance services in the interiors of buildings.

AGRICULTURAL, FORESTRY, AND FISHING occupations in this report include only forestry workers, nursery workers, animal caretakers, and gardeners and groundskeepers.

PRODUCTION, CONSTRUCTION, OPERATING, MAINTENANCE, AND MATERIAL HANDLING are skilled, semiskilled, and unskilled workers performing machine and manual tasks involving production, construction, operating, maintenance, repair, and material handling operations.

Table 4 -- OCCUPATIONS WITH THE GREATEST ABSOLUTE JOB GROWTH

This table lists the occupations that are projected to register the largest absolute change between 1992 and 1998. In general, these occupations are numerically large. Some have average projected rates of growth, but because of their employment size will add significant numbers of new jobs over the 1992-1998 period.

Table 5 -- OCCUPATIONS WITH THE FASTEST JOB GROWTH

This table lists the occupations with the greatest projected percentage increases. It provides a different perspective to future occupational employment changes. It is important to note that some of these occupations are increasing rapidly from relatively small employment levels and, therefore, are not found in the list of occupations that will add the most new jobs.

Table 6 -- OCCUPATIONAL EMPLOYMENT PROJECTIONS

This table provides occupational detail for up to 700 occupations. Annual average employment in each occupation is shown for 1992 and 1998. The column headed "*Absolute Change*" presents the number of job opportunities resulting from the creation of new jobs. The "*Percent Change*" column shows the percentage change for each occupation. The next column, "*Openings Due to Separations*", shows job opportunities that are created by workers leaving the occupation. Also included in this table is the Occupational Employment Statistics (OES) codes column. It shows the distinctive California OES code for each occupational title.

Line numbers in Table 6

Each occupation in Table 6 is identified by a line number. The Alphabetical Index of Occupations section found in this publication may be used to locate individual occupations in the detailed table. The same line numbers are used in all area reports for 1992-1998. Line numbers may be different for other time periods. Not all line numbers appear in all counties; missing line numbers indicate occupations with no employment, or employment below the area's cutoff point for publishing.

METHODS AND ECONOMIC ASSUMPTIONS

OVERVIEW

Changes in occupational employment over time result from two principal sources. Changes in the number, size, and type of employers within a given geographical area will affect the demand for certain occupations. Also, technological advances in production and changes in regulations will affect the occupational mix. In developing occupational employment projections, both of these components must be addressed. Following is a discussion of how employment projections are developed, beginning with a description of data sources followed by a description of the steps involved.

PRINCIPAL DATA SOURCES

Employment by Industry

The Employment Development Department (EDD) collects payroll data from all private employers and government entities covered under the unemployment insurance, disability insurance, and personal income tax programs. Excluded from these data are the self-employed, unpaid family workers, and private household workers. Each reporting unit is classified by EDD according to the Standard Industrial Classification (SIC) System. The SIC system consists of three levels of detail: the two-digit major industry division, the three-digit sub-industry division, and the four-digit specific industry division. All data are identified by the county in which reported jobs are located, and are collected for each month of the year.

Occupational Staffing Patterns

Occupational employment estimates are based on survey data collected through the Occupational Employment Statistics (OES) program. The OES survey is a periodic mail survey of nonfarm employers conducted by EDD in cooperation with U.S. Bureau of Labor Statistics. The survey is based on a sample designed to represent the universe of employers in each state. In California, data are collected for over 700 occupations at the four-digit SIC level of detail.

The OES data used in this report were collected over a three-year period (1989-91), with manufacturing establishments surveyed the first year, nonmanufacturing establishments in the second year, and trade and government establishments in the third year.

PROJECTIONS BY INDUSTRY

The industry projections included in this report were developed in two phases. First, projections were developed at a summary industry level based on two-digit to three-digit SIC classifications. The second phase was to disaggregate these projections to the four-digit industry level.

In the first phase, industry projections were based on the historical relationship between an area's employment in a given industry and California employment in that

industry. In the model used, area employment by industry was specified as a function of California employment in the same or a related industry, and total employment in the area. Area specific total employment was included as an independent variable to capture the employment effects accruing to an industry resulting from the expected overall performance of the local economy compared to the state over the projection period. The local total employment projection used in this phase was based on its relationship to statewide total employment over time, while the California industry projections used were developed as part of the statewide projections process.

As noted above, in the second phase of this process, the summary level industry projections were disaggregated into their four-digit components using the proportions for the base year, 1992. The resulting four-digit projections were reviewed and adjusted if it was determined that a particular four-digit industry would likely grow faster or slower than its associated summary industry total. Last, the four-digit projections were adjusted to group private and public hospital and education employment for consistency with the OES survey.

PROJECTIONS BY OCCUPATION

The distribution of industry employment by occupation is performed in three steps. OES survey responses are summarized by industry and firm size and matched with each SIC and firm size combination in the local area. In cases where local OES responses are not available, either statewide responses or another area's responses are substituted. The survey data are then expanded to the annual average employment level for each industry. This results in estimates of employment by occupation within the four-digit SICs for the base year, 1992.

Next, base year staffing patterns are adjusted to account for projected shifts in the occupational distributions due to technological changes. These projected changes are derived from special studies conducted by the U.S. Bureau of Labor Statistics. Applying these changes to the base year staffing patterns results in staffing patterns by four-digit SIC for the target year, 1998. Target year staffing patterns are applied to the industry employment projections to produce occupational employment projections within four-digit SIC. Data by occupation are then summed to get the 1992 and 1998 occupational estimates. The difference between the 1992 occupational estimates and the 1998 projections represents the net job openings resulting from industry growth and from technological and regulatory changes.

Last, it is important to account for openings that result from net separations. In publications prior to 1993, separations counted only workers leaving the labor force as a result of retirement, death or other long-term conditions. They did not count persons changing occupations or changing employers but remaining in the same occupation. Our new and broader separations estimates are based on the BLS "net separations" data described in the November 1991 *Monthly Labor Review*. The method used by BLS to determine "net separations" is based on projected changes in the level of employment by five-year age group within an occupation. The changes are adjusted to discount overall occupational growth. For each age group, if employment declines as the group ages, total separations must exceed total entrants, and the difference equals net separations for the age group. If employment rises as the group ages, total

entrants must exceed total separations, the difference equals net entrants and net separations for the age group is set to zero. The total of net separations across all age groups then gives the number of openings created by people leaving an occupation which are expected to be filled by net entrants from other age groups, usually younger ones. These entrants into the occupation may come from any source--promotions, transfers from other occupations, new entrants to the labor force, or transfers from other geographic areas. But to the extent that training is required for an occupation, net separations may indicate something about training needs to replace persons who leave the occupation. Please note, the method understates net separations in occupations requiring little training, such as waiter/waitress, that often serve as first jobs and have substantial net separations in young age groups. The net separations rates used are national and have not been adjusted to reflect different age distributions in the county's occupations.

ECONOMIC ASSUMPTIONS

The industry and occupational projections in this report are based on the following assumptions:

- a. The institutional framework of the U.S. economy will not change radically.
- b. Recent technological and scientific trends will continue.
- c. The long-term employment patterns will continue in most industries.
- d. Federal, state, and local government agencies will continue to operate under budgetary constraints.
- e. No major events, such as war, will occur that will significantly alter the industrial structure of the economy, the occupational staffing patterns, or the rate of long-term growth.
- f. Population growth rates and age distributions will not differ significantly from Department of Finance projections presently available.
- g. Attitudes toward work, education, income, and leisure will not change significantly.

ALPHABETICAL INDEX OF OCCUPATIONS

The alphabetical index of occupations is designed to aid in locating individual occupations in the detailed occupational table.

The first column of the index lists, in alphabetical order, each occupation of the detailed occupational employment table (TABLE 6).

The second column lists the line number which is used to locate individual occupations. This number is unique to each OES occupation and appears in column #1 of the detailed table.

The third column indicates the OES code of the occupation. Note that not all occupations will appear in all counties.

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
ABLE SEAMEN	819	975140
ACCOUNTANTS AND AUDITORS	29	211140
ACCOUNTANTS, AUDIT, FINANCE SPECS	24	211000
ACTUARIES	110	253130
ADJUDICATORS, JUDICIAL REVIEWERS	133	281050
ADJUSTMENT CLERKS	283	531230
ADMINISTRATIVE SERVICES MANAGERS	7	130140
ADVERTISING CLERKS	306	539080
AERONAUT, ASTRONAUTICAL ENGINEERS	52	221020
AG, FORESTRY, FISHING--NEC	457	799990
AGRICULTURAL AND FOOD SCIENTISTS	90	243050
AGRICULTURAL ENGINEERS	59	221230
AGRICULTURAL, FORESTRY, FISHING	438	700000
AIR DISPATCHERS, AIR TRAFFIC CONTR	241	390020
AIR HAMMER OPERATORS	562	877020
AIR TRANSPORTATION WORKERS	822	977000
AIRCRAFT ASSEMBLERS--PRECISION	756	931020
AIRCRAFT ENGINE SPECIALISTS	492	853260
AIRCRAFT MECHANICS	491	853230
AIRCRAFT PILOTS, FLIGHT ENGINEERS	823	977020
AMUSEMENT, RECREATION ATTENDANTS	427	680140
ANIMAL CARETAKERS--EXCEPT FARM	453	790170
ANNOUNCERS--EX RADIO, TELEVISION	225	340210
ANNOUNCERS--RADIO AND TELEVISION	224	340170
APPRAISERS--REAL ESTATE	253	430110
ARCHITECTS AND SURVEYORS	67	223000
ARCHITECTS--EX LANDSCAPE, MARINE	68	223020
ART, DRAMA, MUSIC TEACHERS	153	312180
ARTISTS AND RELATED WORKERS	230	340350
ASSEMBL, FABRICATORS--EX MACH,ELECT	782	939560
ASSEMBLERS AND FABRICATORS--HAND	754	930000
ASSEMBLERS, NEC--PRECISION	762	931970
ASSEMBLERS, PRECISION	755	931000
ASSESSORS	47	219170
ATHLETES, COACHES, UMPs, RELATED	239	340580
ATMOSPHERIC AND SPACE SCIENTISTS	85	241080

ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
AUDIO-VISUAL SPECIALISTS	171	315080
AUTOMOTIVE BODY, RELATED REPAIRERS	485	853050
AUTOMOTIVE MECHANICS	484	853020
AUXILIARY EQUIP OPERATORS--POWER	792	950230
BAGGAGE PORTERS AND BELLHOPS	430	680230
BAILIFFS	379	630230
BAKERS--BREAD AND PASTRY	396	650210
BAKERS--MANUFACTURING	636	898050
BANKING, SECURITY, FINANCE, CREDIT	275	531000
BARBERS	423	680020
BARTENDERS	391	650050
BICYCLE REPAIRERS	529	859510
BILL AND ACCOUNT COLLECTORS	295	535080
BILLING, COST, AND RATE CLERKS	328	553440
BILLING, POSTING, CALC MACHINE OPS	331	560020
BINDERY MACH SETTERS, SET-UP OPS	708	925250
BINDERY MACHINE OPERATORS	713	925460
BIOLOGICAL SCIENTISTS	91	243080
BIOLOGICAL, AGRI, FOOD TECHS	95	245020
BLASTERS AND EXPLOSIVES WORKERS	577	879050
BOILER OPS, TENDERS--LOW PRESSURE	735	929260
BOILERMAKERS	602	891350
BOOKBINDERS	632	897210
BOOKKEEPING, ACCOUNTING CLERKS	326	553380
BRATTICE BUILDERS	540	871210
BRICK MASONS	544	873020
BRIDGE, LOCK, LIGHTHOUSE TENDERS	825	978020
BROADCAST NEWS ANALYSTS	223	340140
BROADCAST TECHNICIANS	228	340280
BROKERAGE CLERKS	285	531280
BROKERS--REAL ESTATE	251	430050
BUDGET ANALYSTS	30	211170
BUS AND TRUCK MECHANICS	487	853110
BUS DRIVERS	801	971080
BUS DRIVERS--SCHOOL	802	971110
BUTCHERS AND MEAT CUTTERS	397	650230
CABINETMAKERS AND BENCH CARPENTERS	608	893110
CAMERA OPERATORS	627	897130
CAMERA OPS--TV AND MOTION PICTURE	227	340260
CAMERA, PHOTO EQUIP REPAIRERS	519	859140
CANNERY WORKERS	775	939350
CAPTAINS--WATER VESSEL	815	975020
CARDIOLOGY TECHNOLOGISTS	212	329250
CARPENTERS	535	871020
CARPENTERS AND RELATED WORKERS	534	871000
CARPET CUTTERS, DIAGR, SEAMERS	774	939320
CARPET INSTALLERS	558	876020
CARPET, FLOOR INSTALLERS	557	876000
CASHIERS	268	490230
CEILING TILE INSTALLERS	536	871050
CEMENTING, GLUING MACH OPS,TENDERS	745	929560
CENTRAL OFFICE AND PBX INSTALLERS	496	855020
CENTRAL OFFICE OPERATORS	343	571080
CHEM TECHS--EXCEPT HEALTH	96	245050

ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
CHEMICAL ENGINEERS	56	221140
CHEMICAL EQUIP CONTROLLERS, OPS	738	929350
CHEMICAL EQUIPMENT TENDERS	739	929380
CHEMICAL PLANT, SYSTEM OPERATORS	787	950080
CHEMISTRY TEACHERS	147	312040
CHEMISTS, EXCEPT BIOCHEMISTS	84	241050
CHILD CARE WORKERS	435	680380
CHIROPRACTORS	182	321130
CHOKE SETTERS	443	730050
CIVIL ENGINEERING TECHNICIANS	73	225020
CIVIL ENGINEERS--INCLUDING TRAFFIC	58	221210
CLAIMS EXAMINERS-INSURANCE	48	219210
CLAIMS TAKERS--UNEMP BENEFITS	37	215020
CLEANING, BLDING SERV EX PRIV HOUS	416	670000
CLEANING, BLDING SERV--EX PH, NEC	421	670990
CLEANING, PICKLING EQUIP OPS,TNDRS	746	929580
CLERGY	127	275020
CLERICAL & ADMIN SUP WRKERS, NEC	364	599990
CLERICAL, ADMIN SUPPORT, NEC	363	590000
CLERICAL, ADMINISTRATIVE SUPPORT	272	500000
COIL WINDERS, TAPERS, FINISHERS	766	939080
COIN, VENDING MACHINE SERVICERS	528	859470
COMB MACH TOOL OPS--METAL, PLASTIC	669	915080
COMB MACH TOOL SETTERS--MET, PLAST	668	915050
COMBINED FOOD PREP AND SERVICE	403	650410
COMM EQUIPMENT MECHANICS	495	855000
COMM EQUIPMENT MECHANICS, NEC	501	855990
COMM, TRANS, UTIL OPER MGRS	16	150230
COMMUNICATION EQUIP OPERATORS, NEC	345	571990
COMMUNICATION EQUIPMENT OPERATORS	340	571000
COMMUNICATIONS, MAIL DISTRIBUTION	339	570000
COMPL, ENFORCE INSPECT--EX CONST	45	219110
COMPUTER ENGINEERS	61	221270
COMPUTER OPS--EX PERIPHERAL EQUIP	334	560110
COMPUTER PROGRAMMERS, INCL AIDES	103	251051
COMPUTER SCIENCE TEACHERS	156	312260
COMPUTER SCIENTISTS AND RELATED	101	251000
COMPUTER SCIENTISTS, REL WRKRS,NEC	105	251990
COMPUTER, MATH, OPS RESRCH, RELATE	100	250000
CONCRETE AND TERRAZZO FINISHERS	547	873110
CONST AND BUILDING INSPECTORS	44	219080
CONST TRADES, EXTRACTIVE--HELPERS	854	983000
CONST, EXTRACTIVE--EX HELPERS, NEC	588	879990
CONSTRUCTION MANAGERS	14	150170
CONSTRUCTION TRADES	533	870000
CONSTRUCTION TRADES WORKERS, NEC	574	878990
CONSTRUCTION TRADES, NEC	567	878000
CONTINUOUS MINING MACHINE OPERATOR	584	879410
CONVEYOR OPERATORS AND TENDERS	846	979510
COOKING MACH OPS,TNDRS-FOOD,TOBACC	732	929170
COOKS--INSTITUTION OR CAFETERIA	399	650280
COOKS--RESTAURANT	398	650260
COOKS--SHORT ORDER	401	650350
COOKS--SPECIALTY FAST FOOD	400	650320

ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
COOLING, FREEZING EQUIP OPS, TNDRS	736	929280
CORRECTION OFFICERS, JAILERS	377	630170
CORRECTIVE, MANUAL ARTS THERAPISTS	189	323110
CORRESPONDENCE CLERKS	319	553170
COST ESTIMATORS	42	219020
COUNTER AND RENTAL CLERKS	266	490170
COUNTER ATTENDANTS--FOOD	395	650170
COURT CLERKS	297	537020
CRANE AND TOWER OPERATORS	844	979440
CREDIT ANALYSTS	26	211050
CREDIT AUTHORIZERS	280	531140
CREDIT CHECKERS	281	531170
CRIMINAL INVESTIGATORS, FEDERAL	381	630280
CROSSING GUARDS	386	630440
CRUSHING, MIXING MACH OPS, TNDRS	748	929650
CURATORS, ARCHIVISTS, AND RELATED	172	315110
CUSTOM TAILORS AND SEWERS	613	895050
CUSTOMER SERVICE REPS--UTILITIES	325	553350
CUT, FORM, FAB, PROC MACH SETTER	692	921970
CUT, FORM, FAB, PROCESS MACH OPS	693	921980
CUT, SLICING MACH SETTERS, SET-UP	740	929410
CUTTERS AND TRIMMERS--HAND	772	939260
CUTTING, SLICING MACH OPS, TNDRS	741	929440
DAIRY PROC EQUIP OPRS--INC SETTERS	737	929320
DANCERS AND CHOREOGRAPHERS	237	340530
DATA ENTRY KEYERS--EX COMPOSING	336	560170
DATA KEYERS--COMPOSING	337	560210
DATA PROCESSING EQUIP REPAIRERS	504	857050
DEMONSTRATORS, PROMOTERS, MODELS	270	490320
DENTAL ASSISTANTS	406	660020
DENTAL HYGIENISTS	206	329080
DENTAL LAB TECHNICIANS, PRECISION	646	899210
DENTISTS	179	321050
DERRICK OPS--OIL, GAS EXTRACTION	580	879140
DESIGNERS, EX INTERIOR AND FLORAL	232	340382
DETAIL DESIGN DECORATORS, PAINTERS	643	899110
DETECTIVES, INVESTIGATORS--EX PUB	383	630350
DIETETIC TECHNICIANS	202	325230
DIETITIANS AND NUTRITIONISTS	201	325210
DINING RM ATTENDANTS, BAR HELPERS	394	650140
DIRECTORS--RELIG ACTIVITIES, EDUC	128	275050
DIRECTORY ASSISTANCE OPERATORS	342	571050
DISPATCH--EX POLICE, FIRE, AMBUL	353	580050
DISPATCH--POLICE, FIRE, AMBULANCE	352	580020
DRAFTERS	77	225140
DRAGLINE OPERATORS	838	979260
DREDGE OPERATORS, DIPPER TENDERS	839	979280
DRILLING MACH SETTER--METAL,PLASTI	654	911080
DRIVER/SALES WORKERS	804	971170
DRYWALL INSTALLERS	537	871080
DUPLICATING MACHINE OPERATORS	332	560050
DYERS, PRECISION	618	895210
EARTH DRILLERS, EXCEPT OIL AND GAS	576	879020
ECONOMISTS--INCL MKT RESRCH ANALYS	116	271020

ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
EDP AND OFFICE MACHINE OCCUPATIONS	330	560000
EDUCATION ADMINISTRATORS	10	150050
ELEC INSTALLERS-TRANS EQUIPMENT	512	857280
ELECT AND ELECTRONIC ENGINEERS	60	221260
ELECT EQUIP MECHANICS, NEC	513	857990
ELECT HOME ENTERTAINMENT REPAIRERS	505	857080
ELECT METER INSTALLERS, REPAIRERS	518	859110
ELECT MOTOR, AND RELATED REPAIRERS	507	857140
ELECT POWERLINE INSTALLERS	510	857230
ELECT REPAIRERS--COMMERCIAL	508	857170
ELECT, ELECTRONIC ENGINEERING TECH	74	225050
ELECTRICAL EQUIP ASSEMBLERS--PREC	760	931140
ELECTRICAL, ELECTRONIC ASSEMBLERS	765	939050
ELECTRICIANS	542	872020
ELECTRICIANS AND RELATED WORKERS	541	872000
ELECTROCARDIOGRAPH TECHNICIANS	213	329260
ELECTROLYTIC PLATING, MACH OPS	683	919210
ELECTROLYTIC PLATING, MACH SETTER	682	919170
ELECTROMECH EQUIP ASSEMBLERS--PREC	759	931110
ELECTROMED, BIOMEDL EQUIP REPAIRER	517	859080
ELECTRONEURODIAGNOSTIC TECHNOLOGIS	211	329230
ELECTRONIC PAGINATION SYSTEM WKRS	624	897070
ELECTRONIC SEMICONDUCTOR PROCESSOR	727	929020
ELEVATOR INSTALLERS AND REPAIRERS	525	859320
ELEVATOR OPERATORS	420	670110
EMBALMERS	245	390140
EMERGENCY MEDICAL TECHNICIANS	196	325080
EMPL INTERVIEWERS--PRIV OR PUB	39	215080
ENGINEER, MATH, AND NAT SCI MGRS	8	130170
ENGINEERING TEACHERS	154	312220
ENGINEERING, RELATED TECHNICIANS	72	225000
ENGINEERING, RELATED TECHS, NEC	80	225990
ENGINEERS	51	221000
ENGINEERS, ARCHITECTS, SURVEYORS	50	220000
ENGINEERS, NEC	66	221990
ENGLISH, FOREIGN LANGUAGE TEACHERS	152	312160
ENGRAVING, PRINTING WORKERS--HAND	780	939510
ESTIMATORS, DRAFTERS--UTILITIES	78	225170
ETCHERS, ENGRAVERS--PRECISION	600	891280
EXCAVATING, LOADING MACHINE OPS	837	979230
EXTRACTIVE AND RELATED WORKERS	575	879000
EXTRACTIVE WORKERS--EX HELPERS, NE	587	879890
EXTRUDING MACH OPS,TNDRS--SYN/GLAS	718	927080
EXTRUDING MACH SETTERS--METAL,PLAS	662	913110
EXTRUDING, FORMING MACH OPS, TNDRS	750	929710
EXTRUDING, FORMING, SETTERS, SET-U	749	929680
FALLERS AND BUCKERS	442	730020
FARM AND HOME MANAGEMENT ADVISORS	166	313230
FARM EQUIPMENT MECHANICS	490	853210
FARM EQUIPMENT OPERATORS	454	790210
FENCE ERECTORS	573	878170
FILE CLERKS	320	553210
FILM EDITORS	229	340320
FINANCIAL ANALYSTS, STATISTICAL	111	253150

ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
FINANCIAL MANAGERS	3	130020
FINANCIAL SPECIALISTS, NEC	31	211990
FIRE FIGHTERS	374	630080
FIRE FIGHTING & PREVENTION SUPS	367	610020
FIRE INSPECTORS	372	630020
FIRST-LINE SUP/MGR SERV WKRS, NEC	370	610990
FIRST-LINE SUP/MGR, CLERL, ADM SUP	273	510000
FIRST-LINE SUP/MGR-AG, FOR, FISH	439	720000
FIRST-LINE SUP/MGR-SALES	248	410000
FIRST-LINE SUP/MGR-SERVICE	366	610000
FIRST-LINE SUP/MGR-BLUE COLLAR	459	810000
FIRST-LINE SUP/MGR-BLUE COLLAR NEC	465	810990
FIRST-LINE SUP/MGR-CONSTRUCTION	461	810050
FIRST-LINE SUP/MGR-HELP, LABORERS	464	810170
FIRST-LINE SUP/MGR-MECH, REPAIRERS	460	810020
FIRST-LINE SUP/MGR-PRODUCTION	462	810080
FIRST-LINE SUP/MGR-TRANSPORTATION	463	810110
FIRST-LINE SUPERVISORS - AGRICULTU	440	720020
FISH AND GAME WARDENS	385	630410
FITTERS, STRUCTURAL METAL-PREC	758	931080
FLIGHT ATTENDANTS	431	680260
FLOOR LAYERS-EX CARPET,WOOD,TILES	559	876050
FLOOR SANDING MACHINE OPERATORS	560	876080
FLORAL DESIGNERS	231	340381
FOOD AND TOBACCO WORKERS, NEC	638	898990
FOOD BATCHMAKERS	637	898080
FOOD PREPARATION WORKERS	402	650380
FOOD SERVERS--OUTSIDE	393	650110
FOOD SERVICE MANAGERS	17	150261
FOOD SERVICE WORKERS, NEC	404	650990
FOOD WORKERS, PRECISION	634	898000
FOOD, BEV PREP AND SERVICE OCCS	389	650000
FOREST FIRE INSPECT, PREVENT SPECS	373	630050
FOREST, CONSERVATION WORKERS	448	790020
FORESTERS, CONSERVATION SCIENTISTS	89	243020
FORGING MACH SETTERS--METAL, PLAST	664	913170
FOUNDRY MOLD ASSEMBLY, SHAKEOUT	681	919140
FOUNDRY MOLD,CORE MAKERS,PRECISION	640	899020
FRAME WIRERS, CENTRAL OFFICE	497	855050
FREIGHT, MATERIAL MOVERS-HAND, NEC	868	987990
FREIGHT, STOCK, MAT MOVERS, HAND	865	987000
FUNERAL ATTENDANTS	436	680410
FUNERAL DIRECTORS AND MORTICIANS	244	390110
FURNACE OPERATORS AND TENDERS	688	919350
FURNACE, KILN, KETTLE OPS, TENDERS	734	929230
FURNITURE FINISHERS	609	893140
GARDENERS, GROUNDSKEEPERS-EX FARM	452	790140
GAS COMPRESSOR OPERATORS	836	979210
GAS PLANT OPERATORS	786	950050
GAS PUMPING STATION OPERATORS	835	979170
GAUGERS	790	950170
GEM AND DIAMOND WORKERS	648	899260
GENERAL MANAGERS, TOP EXECUTIVES	20	190050
GENERAL OFFICE CLERKS	329	553470

ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
GEOLOGIST, GEOPHYS, OCEANOGRAPHERS	86	241110
GLAZIERS	571	878110
GLAZIERS, MANUFACTURING	767	939110
GRADER, DOZER, SCRAPER OPERATORS	842	979380
GRADERS, SORTERS--AG PRODUCTS	451	790110
GRADUATE ASSISTANTS, TEACHING	145	311170
GRINDING MACH SETTER--METAL, PLASTI	656	911140
GRINDING, POLISHING WORKERS--HAND	781	939530
GUARDS AND WATCH GUARDS	387	630470
GUIDES	428	680170
HAIRDRESSERS, HAIRSTYLISTS	424	680050
HAND COMPOSITORS AND TYPESETTERS	621	897020
HAND PACKERS AND PACKAGERS	870	989020
HAND WORKERS, NEC	783	939990
HAND WORKERS--JEWELERY, PRECISION	599	891260
HARD TILE SETTERS	546	873080
HEAD SAWYERS	696	923050
HEALTH CARE MAINTENANCE, TREATING	193	325000
HEALTH CARE PROFS, PARAPROFS, NEC	217	329990
HEALTH DIAGNOSING, TREATING	177	321000
HEALTH DIAGNOSING, TREATING, NEC	184	321990
HEALTH PRACTITIONERS, TECHS, RELAT	176	320000
HEALTH SERVICE WORKERS, NEC	415	660990
HEALTH SERVICE, RELATED OCCS	405	660000
HEALTH SPECIALITIES TEACHERS	151	312120
HEAT TREATING MACH OPS, TENDERS	687	919320
HEATERS, METAL & PLASTIC	689	919380
HEATING EQUIP SETTERS-METAL, PLAST	686	919280
HEATING, AC, REFRIG MECHANICS	515	859020
HELPERS, LABORERS, HAND--EX AG	851	980000
HELPERS--BRICK,STONE MASONS	855	983110
HELPERS--CARPENTERS AND RELATED	856	983120
HELPERS--CONSTRUCTION TRADES, NEC	861	983190
HELPERS--ELECT, POWERLINE INSTALL	857	983130
HELPERS--EXTRACTIVE WORKERS	862	983230
HELPERS--PAINTERS AND RELATED	858	983140
HELPERS--PLUMBERS AND RELATED	859	983150
HELPERS--ROOFERS	860	983160
HIGHWAY MAINTENANCE WORKERS	565	877110
HOIST AND WINCH OPERATORS	843	979410
HOME APPLIANCE AND POWER TOOL REPA	506	857111
HOME HEALTH CARE WORKERS	409	660110
HOSTS, HOSTesses--RESTAURANTS	390	650020
HOTEL DESK CLERKS	303	538080
HOUSEKEEPING SUPERVISORS	369	610080
HUMAN SERVICES WORKERS	124	273080
INDUST ENGINEERING TECHS	75	225080
INDUST ENGINEERS--EXCEPT SAFETY	62	221280
INDUSTRIAL PRODUCTION MANAGERS	13	150140
INDUSTRIAL TRUCK,TRACTOR OPERATORS	845	979470
INDUSTRY SPECIFIC CLERICAL, ADMIN	274	530000
INS ADJUST, EXAMIN, INVESTIGATORS	287	533020
INSPECTORS, RELATED OCCUPATIONS	466	830000
INSPECTORS, TESTERS, RELATED, NEC	470	830990

ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
INSPECTORS, TESTERS, & GRADERS, PRECI	467	830020
INSTALLER & REPAIRER, MOBILE HOME	527	859380
INSTRUCTIONAL AIDES	175	315211
INSTRUCTIONAL COORDINATORS	174	315170
INSTRUCTORS AND COACHES--SPORTS	165	313210
INSTRUCTORS--NON-VOC EDUCATION	164	313170
INSTRUMENT MAKERS, PRECISION	592	891050
INSTRUMENT REPAIRERS, PRECISION	516	859050
INSULATION WORKERS	568	878020
INSURANCE APPRAISERS--AUTO DAMAGE	288	533050
INSURANCE CLAIMS CLERKS	290	533110
INSURANCE EXAMINING CLERKS	289	533080
INSURANCE POLICY PROCESSING CLERKS	291	533140
INSURANCE WORKERS	286	533000
INTERIOR DESIGNERS	233	340410
INTERVIEW CLERKS--EX PERS, WELFARE	324	553320
INVESTIGATIVE, RELATED, EX INSUR	292	535000
INVESTIGATORS--CLERICAL	294	535050
JANITORS, CLEANERS--EXCEPT MAIDS	418	670050
JEWELERS AND SILVERSMITHS	598	891230
JOB PRINTERS	622	897050
JUDGES AND MAGISTRATES	132	281020
LANDSCAPE ARCHITECTS	70	223080
LATHE MACH SETTERS--METAL, PLASTIC	653	911050
LATHERS	539	871140
LAW AND RELATED OCCUPATIONS	130	280000
LAW CLERKS	136	283020
LAWYERS	134	281080
LAWYERS AND RELATED WORKERS	131	281000
LAYOUT WORKERS--METAL, PRECISION	596	891170
LECTURERS	143	311110
LEGAL ASSTS, TECHS, EX CLERICAL	135	283000
LEGAL ASSTS, TECHS--EX CLER, NEC	140	283990
LETTERPRESS SETTERS, SET-UP OPS	703	925150
LIBRARIANS, ARCHIVISTS AND RELATED	168	315000
LIBRARIANS--PROFESSIONAL	169	315020
LIBRARY ASSTS & BOOKMOBILE DRIVERS	305	539020
LICENSE CLERKS	299	537080
LICENSED VOCATIONAL NURSES	195	325050
LIFE SCIENCES TEACHERS	146	312020
LIFE SCIENTISTS	88	243000
LIFE SCIENTISTS, NEC	93	243990
LITHO AND PHOTOENGRAVING WORKERS,	631	897190
LITHOGRAPHY & PHOTOENGRAVING--PREC	625	897080
LNDRY, DRYCLEAN MACH OPS--EX PRESS	724	927260
LOADING MACHINE OPS--MINING	840	979320
LOAN AND CREDIT CLERKS	282	531210
LOAN INTERVIEWERS	279	531110
LOAN OFFICERS AND COUNSELORS	27	211080
LOCKSMITHS AND SAFE REPAIRERS	522	859230
LOCOMOTIVE ENGINEERS	808	973050
LOCOMOTIVE FIRERS	810	973110
LODGING AND TRAVEL WORKERS	300	538000
LODGING MANAGERS	18	150262

ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
LOG GRADERS AND SCALERS	450	790080
LOG HANDLING EQUIPMENT OPERATORS	444	730080
LOGGING TRACTOR OPERATORS	445	730110
LONGSHORE EQUIPMENT OPERATORS	830	979020
MACH BLDR, OTH PREC MACH ASSEMBLER	757	931050
MACH FORMING OPS,TENDRS--MET, PLAS	665	913210
MACH FORMING SETTERS--METAL,PLASTI	658	913000
MACH SETTER,SET-UP,OP--EX MET,PLAS	726	929000
MACH SETTERS, SET-UP, OPS, TENDERS	650	910000
MACH TOOL CUTTING OPS--METAL,PLAST	657	911170
MACH TOOL CUTTING--METAL, PLASTIC	651	911000
MACH TOOL SETTERS, OPS--METAL,PLAS	666	915000
MACHINE ASSEMBLERS	764	939020
MACHINE FEEDERS AND OFFBEARERS	863	985000
MACHINE FEEDERS AND OFFBEARERS, NEC	864	985020
MACHINE OPERATORS AND TENDERS, NEC	753	929980
MACHINE SETTERS & SET-UP OPS, NEC	752	929970
MACHINERY AND RELATED MECHANICS	472	851000
MACHINERY MAINT MECHANICS, NEC	478	851190
MACHINERY MAINTENANCE WORKERS	481	851280
MACHINISTS	593	891080
MAIDS AND HOUSEKEEPING CLEANERS	417	670020
MAIL CLKS-EX MAIL MACH OPS, POSTAL	347	573020
MAIL MACH OPS--PREP AND HANDLING	333	560080
MAIL, MESSAGE DISTRIBUTION WORKERS	346	573000
MAIN LINE STATION ENGINEERS	834	979140
MAINT MECHANICS--MARINE EQUIP	475	851160
MAINT MECHANICS--WATER, POWER	477	851180
MAINT REPAIRERS, GENI UTILITY	482	851320
MAINTENANCE MECHANICS--SEWING MACH	474	851130
MAINTENANCE MECHANICS--TEXTILE	473	851120
MANAGEMENT ANALYSTS	43	219050
MANAGEMENT SUPPORT OCCUPATIONS	23	210000
MANAGEMENT SUPPORT WORKERS, NEC	49	219990
MANAGERS AND ADMINISTRATORS, NEC	21	199990
MANICURISTS	425	680080
MARINE ARCHITECTS	69	223050
MARINE ENGINEERS	65	221380
MARKING CLERKS	358	580210
MASONS AND RELATED WORKERS	543	873000
MATERIAL MOVEMENT EQUIP OPERATORS	829	979000
MATERIAL MOVING EQUIP OPS, NEC	849	979890
MATERIAL RECORDING, DISPATCHING	351	580000
MATERIAL RECORDING, RELATED, NEC	362	580990
MATES--SHIP, BOAT, AND BARGE	816	975050
MATH SCIENTISTS AND RELATED	106	253000
MATHEMATICAL SCIENCES TEACHERS	155	312240
MATHEMATICAL SCIENTISTS	108	253100
MATHEMATICAL SCIENTISTS, NEC	112	253190
MATHEMATICAL TECHNICIANS	113	253230
MEAT, POULTRY, FISH CUTTERS--HAND	776	939380
MECH CONTROL, VALVE INSTALLERS	524	859280
MECHANIC AND REPAIRER HELPERS	852	981000
MECHANIC AND REPAIRER HELPERS, NEC	853	981020

ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
MECHANICAL ENGINEERING TECHS	76	225110
MECHANICAL ENGINEERS	64	221350
MECHANICS, INSTALLERS, REPAIRERS	471	850000
MECHANICS, NEC	494	853990
MECHS, INSTALLERS, REPAIRERS, NEC	532	859990
MED, CLINICAL LAB ASSISTANTS	205	329050
MED, CLINICAL LAB TECHNOLOGISTS	204	329020
MEDICAL APPLIANCE MAKERS	647	899230
MEDICAL ASSISTANTS	407	660050
MEDICAL RECORDS TECHNICIANS	207	329110
MEDICAL SCIENTISTS	92	243110
MEDICINE, HEALTH SERVICES MGRS	11	150080
MENDERS, GARMENTS AND LINENS	531	859560
MERCH DISPLAYERS, WINDOW TRIMMERS	234	340440
MERCH, PRODUCTS AND OTHER SALES	259	490000
MESSENGERS	350	573110
METAL FABRICATING MACH SETTERS, OPS	670	917000
METAL FABRICATOR, STRUCT MET PRODS	675	917140
METAL MOLDING MACH OPS AND TENDERS	680	919110
METAL MOLDING, MACH SETTER, SET-UP	679	919080
METAL POURERS, CASTERS--BASIC	777	939410
METAL WORKERS, NEC--PRECISION	603	891990
METAL WORKERS, PRECISION	590	891000
METAL, PLAST MACH SETTERS, OPS NEC	691	921000
METAL, PLAST PROCESS MACH SETTERS	676	919000
METALLURGISTS, RELATED ENGINEERS	53	221050
METER READERS--UTILITIES	356	580140
MGRS AND ADMIN OCCUPATIONS	2	100000
MILLING MACH SETTERS--METAL, PLASTI	655	911110
MILLWRIGHTS	479	851230
MINE CUTTING, CHANNELING MACH OPS	585	879430
MINING ENGINEERS--INCL MINE SAFETY	54	221080
MINING MACHINE OPERATORS, NEC	586	879490
MINING, OIL AND GAS, RELATED MGRS	15	150210
MISC AG, FORESTRY, FISHING	447	790000
MISC HELPERS, LABORERS--HAND	869	989000
MISC HELPERS, LABORERS--HAND, NEC	872	989990
MISC INDUSTRY SPECIFIC CLERICAL	304	539000
MISC MECH, INSTALLERS, REPAIRERS	514	859000
MISC METAL, PLAST MACH SETTERS OPS	690	919990
MISC PERSONAL SERVICE OCCUPATIONS	422	680000
MISC PROFS, PARAPROFS, TECHNICAL	240	390000
MISC SECRETARIAL, GENL OFF OCCS	314	553000
MISC SERVICE WORKERS	437	690000
MISC TRANSPORTATION WORKERS	824	978000
MKTING, ADV, PUB-REL MANAGERS	6	130110
MOBILE EQUIP MECHANICS, REPAIRERS	483	853000
MOBILE HEAVY EQUIP MECH--EX ENGINE	488	853140
MOLDERS AND CASTERS--HAND	778	939440
MOLDERS, SHAPERS--EX JEWELER	641	899050
MOTION PICTURE PROJECTIONISTS	728	929050
MOTOR VEHICLE OPERATORS	798	971000
MOTOR VEHICLE OPERATORS, NEC	805	971990
MOTORBOAT OPERATORS	818	975110

ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
MOTORCYCLE REPAIRERS	486	853080
MUNICIPAL CLERKS	298	537050
MUNICIPAL WORKERS	296	537000
MUSIC DIRECTORS, SINGERS, COMPOSERS	235	340470
MUSICAL INST REPAIRERS AND TUNERS	521	859210
MUSICIANS--INSTRUMENTAL	236	340510
NAT SCIENTISTS AND RELATED WORKERS	81	240000
NC TOOL, PROCESS PROGRAMMERS	104	251110
NEW ACCOUNTS CLERKS	277	531050
NONELECTROL PLATING MACH-OPS	685	919260
NONELECTROL PLATING MACH-SETTERS	684	919230
NUCLEAR ENGINEERS	57	221170
NUCLEAR MEDICINE TECHNOLOGISTS	208	329140
NUCLEAR TECHNICIANS	97	245080
NUMERICAL MACH TOOL OPS--MET, PLAS	667	915020
NURSE AIDES, ORDERLIES, ATTENDANTS	408	660080
NURSERY WORKERS	449	790050
NURSING INSTRUCTORS	144	311140
OCCUPATIONAL THERAPISTS	187	323050
OCCUPATIONAL THERAPY ASSISTANTS	414	660210
OCCUPATIONS NOT CLASSIFIED	873	
OFF MACH, CASH REGISTER SERVICERS	523	859260
OFFICE MACHINE OPERATORS, NEC	338	560990
OFFSET LITHOGRAPHIC PRESS SETTERS	702	925120
OIL PUMPERS--EXCEPT WELL HEAD	832	979080
OPERATING ENGINEERS	848	979560
OPS, SYS RESEARCHERS--EX COMPUTER	107	253020
OPTICAL GOODS WORKERS, PRECISION	645	899170
OPTICIANS--DISPENSING, MEASURING	198	325140
OPTOMETRISTS	180	321080
ORDER CLERKS--MATERIALS, SERVICE	321	553230
ORDER FILLERS--WHLE & RET SALES	360	580260
ORDINARY SEAMEN AND MARINE OILERS	820	975170
OTH SOCIAL SCIENCE RELATED WORKERS	120	273000
OTHER AG, FORESTRY, FISHING	455	790990
OTHER ELECTRICAL EQUIP MECHANICS	502	857000
OTHER HAND WORKERS	763	939000
OTHER HEALTH PROFS, PARAPROFS	203	329000
OTHER MANAGEMENT SUPPORT WORKERS	41	219000
OTHER PRECISION WORKERS	639	899000
OTHER PROF, PARAPROF, TECHNICAL	246	399990
OTHER TEACHERS AND INSTRUCTORS	158	313000
PACKAGING, FILLING MACH OPS, TNDRS	751	929740
PAINT, COAT & SPRAY MACH SETTERS	743	929510
PAINTERS AND RELATED WORKERS	550	874000
PAINTERS, PAPERHANGERS--CONST	551	874020
PAINTERS, TRANSPORTATION EQUIP	742	929470
PAINTING, COATING, DECORATING--HAN	779	939470
PAINTING, REL MACH OPS, TENDERS	744	929530
PAPER GOODS MACH SETTERS,SET-UP OP	731	929140
PARALEGAL PERSONNEL	137	283050
PARKING ENFORCEMENT OFFICERS	378	630210
PARKING LOT ATTENDANTS	827	978080
PASTE UP WORKERS	623	897060

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
PATTERN AND MODEL MAKERS--METAL	595	891140
PATTERN AND MODEL MAKERS--WOOD	605	893020
PATTERN MARKERS--WOOD	606	893050
PATTERNMAKERS AND LAYOUT WORKERS	612	895020
PATTERNMAKERS, MODEL MAKERS, LAYOU	642	899080
PAVING, TAMPING-EQUIP OPERATORS	564	877080
PAYROLL AND TIMEKEEPING CLERKS	327	553410
PERIPHERAL EDP EQUIPMENT OPERATORS	335	560140
PERS CLERKS--EX PAYROLL	318	553140
PERS, TRAINING, LAB-REL SPECS	36	215000
PERS, TRAINING, LAB-REL SPECS, NEC	40	215110
PERS, TRAINING, LABOR-REL MGRS	4	130050
PERSONAL AND HOME CARE AIDES	434	680350
PEST CONTROLLERS AND ASSISTANTS	419	670080
PETRO REFINERY, CONTROL PANEL OPS	789	950140
PETROLEUM ENGINEERS	55	221110
PETROLEUM PUMP SYSTEM OPERATORS	788	950110
PETROLEUM TECHNICIANS	98	245110
PHARMACISTS	199	325170
PHARMACY TECHNICIANS	200	325181
PHOTOENGRAVERS	626	897120
PHOTOENGRAVING, LITHO MACH OPS	712	925450
PHOTOENGRAVING, LITHO PHOTOGRAPHER	705	925210
PHOTOGRAPHERS	226	340230
PHOTOGRAPHIC PROC MACH OPS,TNDRS	729	929080
PHOTOGRAPHIC PROCESS WKR,PRECISION	644	899140
PHYSICAL SCIENCE TEACHERS, NEC	149	312090
PHYSICAL SCIENTISTS	82	241000
PHYSICAL SCIENTISTS, NEC	87	241990
PHYSICAL THERAPIST ASSISTANTS	412	660171
PHYSICAL THERAPISTS	188	323080
PHYSICAL THERAPY AIDES	413	660172
PHYSICAL THERAPY ASSISTANTS & AIDE	411	660170
PHYSICAL, LIFE SCIENCE TECHS	94	245000
PHYSICAL, LIFE SCIENCE TECHS, NEC	99	245990
PHYSICIAN'S ASSISTANTS	197	325110
PHYSICIANS AND SURGEONS	178	321020
PHYSICISTS AND ASTRONOMERS	83	241020
PHYSICS TEACHERS	148	312060
PILE DRIVING OPERATORS	563	877050
PILOTS--SHIP	817	975080
PIPELAYERS	555	875080
PIPELAYING FITTERS	554	875050
PLANT AND SYSTEM OCCUPATIONS	784	950000
PLANT AND SYSTEM OPERATORS, NEC	796	950990
PLAST MOLDING, CASTING MACH SETTER	677	919020
PLASTERERS AND STUCCO MASONS	549	873170
PLASTIC MOLDING, CASTING MACH OPS	678	919050
PLATEMAKERS	630	897180
PLUMBERS AND RELATED WORKERS	552	875000
PLUMBERS, PIPEFITTERS, STEAMFITTER	553	875020
PODIATRISTS	181	321110
POLICE AND DETECTIVE SUPERVISORS	368	610050
POLICE DETECTIVES	375	630110

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
POLICE PATROL OFFICERS	376	630140
PORTABLE MACHINE CUTTERS	773	939280
POST-SECONDARY TEACHERS	142	311000
POSTAL MAIL CARRIERS	348	573050
POSTAL SERVICE CLERKS	349	573080
POSTMASTERS, MAIL SUPERINTENDENTS	9	150020
POSTSECONDARY TEACHERS, NEC	157	312990
POWER DISTRIBUTORS AND DISPATCHERS	794	950280
POWER PLANT OPS--EX AUXILIARY EQUI	791	950210
POWER REACTOR OPERATORS	793	950260
POWERHOUSE, RELATED ELECTRICIANS	509	857210
PRESS MACH SETTERS--METAL, PLASTIC	660	913050
PRESSERS--DELICATE FABRICS	617	895170
PRESSERS--HAND	770	939210
PRESSING MACH OPS--TEXTILE, GARMEN	725	927280
PRINT PRESS SETTERS, SET-UP OPS	701	925100
PRINT PRESS SETTERS, SET-UP OPS NE	704	925190
PRINT REL SETTERS, SET-UP OPS, NEC	709	925290
PRINT, BINDING, REL MACH OPS, TNDR	714	925490
PRINTING PRESS MACHINE OPS, TENDER	711	925430
PRINTING WORKERS, NEC--PRECISION	633	897990
PRINTING WORKERS, PRECISION	620	897000
PRINTING, BINDING, RELATED WORKERS	700	925000
PROCUREMENT CLERKS	322	553260
PROD INSPECTORS, TESTERS, & GRADER	468	830050
PROD, CONST, OPER, MAT HANDLING	458	800000
PROD, PLANNING, EXPEDITING CLERKS	354	580080
PRODUCERS, DIRECTORS, ACTORS	238	340560
PRODUCTION OCCUPATIONS, PRECISION	589	890000
PROFESSIONAL, PARAPROF, TECHNICAL	22	200000
PROOFREADERS AND COPY MARKERS	307	539110
PROPERTY AND REAL ESTATE MANAGERS	12	150110
PROTECTIVE SERVICE OCCUPATIONS	371	630000
PROTECTIVE SERVICE WORKERS, NEC	388	630990
PSYCHIATRIC AIDES	410	660140
PSYCHIATRIC TECHNICIANS	215	329310
PSYCHOLOGISTS	118	271080
PUB ADMIN CHIEF EXECS, LEGISLATORS	19	190020
PUB REL SPECS, PUBLICITY WRITERS	221	340080
PUMP OPERATORS	847	979530
PUNCH MACH SETTERS--METAL, PLASTIC	659	913020
PURCH AGTS AND BUYERS--FARM PRODS	34	213050
PURCH AGTS--EX WHILE,RET,FARM PRODS	35	213080
PURCHASING AGENTS AND BUYERS	32	213000
PURCHASING MANAGERS	5	130080
RADIO MECHANICS	500	855140
RADIO OPERATORS	243	390080
RADIOLOGIC TECHNOLOGIST,DIAGNOSTIC	210	329210
RADIOLOGIC TECHNOLOGIST,THERAPEUTI	209	329170
RAIL CAR REPAIRERS	489	853170
RAIL TRANSPORTATION WORKERS	806	973000
RAIL VEHICLE OPERATIVES, NEC	813	973990
RAIL YARD ENGINEERS AND RELATED	809	973080
RAIL-TRACK LAYING, MAINT EQUIP OPS	566	877140

ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
RAILROAD BRAKE, SIGNAL, SWITCH OPS	812	973170
RAILROAD CONDUCTORS, YARDMASTERS	807	973020
RAILROAD, TRANSIT POLICE, SPEC AGTS	384	630380
REAL ESTATE CLERKS	308	539140
RECEPTIONISTS, INFORMATION CLERKS	316	553050
RECREATION WORKERS	125	273110
RECREATIONAL THERAPISTS	191	323170
REFRACTORY MATERIALS REPAIRERS	480	851260
REFUSE COLLECTORS	867	987050
REGISTERED NURSES	194	325020
REINFORCING METAL WORKERS	548	873140
RELIGIOUS WORKERS	126	275000
RELIGIOUS WORKERS, NEC	129	275990
REPORTERS AND CORRESPONDENTS	222	340110
RESERVATION, TRANS TICKET AGENTS	302	538050
RESIDENTIAL COUNSELORS	123	273070
RESPIRATORY CARE PRACTITIONERS	186	323020
RIGGERS	526	859350
ROASTING, BAKING MACH OPS--FOOD	733	929210
ROCK SPLITTERS, QUARRY	578	879080
ROLLING MACH SETTERS--METAL, PLAST	663	913140
ROOF BOLTERS	583	879230
ROOFERS	570	878080
ROTARY DRILL OPS--OIL, GAS EXTRACT	579	879110
ROUSTABOUTS	582	879210
SAFETY ENGINEERS--EXCEPT MINING	63	221320
SALES AGENTS, PLACERS--INSURANCE	250	430020
SALES AGENTS--ADVERTISING	257	430230
SALES AGENTS--FINANCIAL SERVICES	254	430140
SALES AGENTS--REAL ESTATE	252	430080
SALES AGENTS--SEL BUS SERVICES	255	430170
SALES AGENTS--SERVICE	249	430000
SALES AND RELATED OCCUPATIONS	247	400000
SALES AND RELATED WORKERS, NEC	271	499990
SALES ENGINEERS	260	490020
SALES REPS, NON-SCIENTIFIC EX RET	262	490080
SALES REPS, SCIENTIFIC--EX RETAIL	261	490050
SALES REPS, SERVICE--NEC	258	430990
SALESPERSONS - RETAIL(NON-VEHICLE)	264	490112
SALESPERSONS--PARTS	265	490140
SAW MACH TOOL SETTERS--METAL,PLAST	652	911020
SAWING MACH OPS AND TENDERS	697	923080
SAWING MACH SETTERS, SET-UP OPS	695	923020
SCANNER OPERATORS	628	897150
SCREEN PRINT MACH SETTERS, SET-UP	707	925240
SECRETARIAL, GENERAL OFFICE OCCS	309	550000
SECRETARIES	310	551000
SECRETARIES, GENERAL	313	551080
SECRETARIES, LEGAL	311	551020
SECRETARIES, MEDICAL	312	551050
SELECTED ROAD, RAIL AND RELATED	561	877000
SEPARATING, STILL MACH OPS, TNDRS	747	929620
SEPTIC TANK, SEWER PIPE SERVICERS	556	875110
SERVICE OCCUPATIONS	365	600000

ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
POLICE PATROL OFFICERS	376	630140
PORTABLE MACHINE CUTTERS	773	939280
POST-SECONDARY TEACHERS	142	311000
POSTAL MAIL CARRIERS	348	573050
POSTAL SERVICE CLERKS	349	573080
POSTMASTERS, MAIL SUPERINTENDENTS	9	150020
POSTSECONDARY TEACHERS, NEC	157	312990
POWER DISTRIBUTORS AND DISPATCHERS	794	950280
POWER PLANT OPS--EX AUXILIARY EQUI	791	950210
POWER REACTOR OPERATORS	793	950260
POWERHOUSE, RELATED ELECTRICIANS	509	857210
PRESS MACH SETTERS--METAL, PLASTIC	660	913050
PRESSERS--DELICATE FABRICS	617	895170
PRESSERS--HAND	770	939210
PRESSING MACH OPS--TEXTILE, GARMEN	725	927280
PRINT PRESS SETTERS, SET-UP OPS	701	925100
PRINT PRESS SETTERS, SET-UP OPS NE	704	925190
PRINT REL SETTERS, SET-UP OPS, NEC	709	925290
PRINT, BINDING, REL MACH OPS, TNDR	714	925490
PRINTING PRESS MACHINE OPS, TENDER	711	925430
PRINTING WORKERS, NEC--PRECISION	633	897990
PRINTING WORKERS, PRECISION	620	897000
PRINTING, BINDING, RELATED WORKERS	700	925000
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PROD, PLANNING, EXPEDITING CLERKS	354	580080
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PROOFREADERS AND COPY MARKERS	307	539110
PROPERTY AND REAL ESTATE MANAGERS	12	150110
PROTECTIVE SERVICE OCCUPATIONS	371	630000
PROTECTIVE SERVICE WORKERS, NEC	388	630990
PSYCHIATRIC AIDES	410	660140
PSYCHIATRIC TECHNICIANS	215	329310
PSYCHOLOGISTS	118	271080
PUB ADMIN CHIEF EXECS, LEGISLATORS	19	190020
PUB REL SPECS, PUBLICITY WRITERS	221	340080
PUMP OPERATORS	847	979530
PUNCH MACH SETTERS--METAL, PLASTIC	659	913020
PURCH AGTS AND BUYERS--FARM PRODS	34	213050
PURCH AGTS--EX WHLE,RET,FARM PRODS	35	213080
PURCHASING AGENTS AND BUYERS	32	213000
PURCHASING MANAGERS	5	130080
RADIO MECHANICS	500	855140
RADIO OPERATORS	243	390080
RADIOLOGIC TECHNOLOGIST,DIAGNOSTIC	210	329210
RADIOLOGIC TECHNOLOGIST,THERAPEUTI	209	329170
RAIL CAR REPAIRERS	489	853170
RAIL TRANSPORTATION WORKERS	806	973000
RAIL VEHICLE OPERATIVES, NEC	813	973990
RAIL YARD ENGINEERS AND RELATED	809	973080
RAIL-TRACK LAYING, MAINT EQUIP OPS	566	877140

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RECREATION WORKERS	125	273110
RECREATIONAL THERAPISTS	191	323170
REFRACTORY MATERIALS REPAIRERS	480	851260
REFUSE COLLECTORS	867	987050
REGISTERED NURSES	194	325020
REINFORCING METAL WORKERS	548	873140
RELIGIOUS WORKERS	126	275000
RELIGIOUS WORKERS, NEC	129	275990
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RESERVATION, TRANS TICKET AGENTS	302	538050
RESIDENTIAL COUNSELORS	123	273070
RESPIRATORY CARE PRACTITIONERS	186	323020
RIGGERS	526	859350
ROASTING, BAKING MACH OPS--FOOD	733	929210
ROCK SPLITTERS, QUARRY	578	879080
ROLLING MACH SETTERS--METAL, PLAST	663	913140
ROOF BOLTERS	583	879230
ROOFERS	570	878080
ROTARY DRILL OPS--OIL, GAS EXTRACT	579	879110
ROUSTABOUTS	582	879210
SAFETY ENGINEERS--EXCEPT MINING	63	221320
SALES AGENTS, PLACERS--INSURANCE	250	430020
SALES AGENTS--ADVERTISING	257	430230
SALES AGENTS--FINANCIAL SERVICES	254	430140
SALES AGENTS--REAL ESTATE	252	430080
SALES AGENTS--SEL BUS SERVICES	255	430170
SALES AGENTS--SERVICE	249	430000
SALES AND RELATED OCCUPATIONS	247	400000
SALES AND RELATED WORKERS, NEC	271	499990
SALES ENGINEERS	260	490020
SALES REPS, NON-SCIENTIFIC EX RET	262	490080
SALES REPS, SCIENTIFIC--EX RETAIL	261	490050
SALES REPS, SERVICE--NEC	258	430990
SALESPERSONS - RETAIL(NON-VEHICLE)	264	490112
SALESPERSONS--PARTS	265	490140
SAW MACH TOOL SETTERS--METAL,PLAST	652	911020
SAWING MACH OPS AND TENDERS	697	923080
SAWING MACH SETTERS, SET-UP OPS	695	923020
SCANNER OPERATORS	628	897150
SCREEN PRINT MACH SETTERS, SET-UP	707	925240
SECRETARIAL, GENERAL OFFICE OCCS	309	550000
SECRETARIES	310	551000
SECRETARIES, GENERAL	313	551080
SECRETARIES, LEGAL	311	551020
SECRETARIES, MEDICAL	312	551050
SELECTED ROAD, RAIL AND RELATED	561	877000
SEPARATING, STILL MACH OPS, TNDRS	747	929620
SEPTIC TANK, SEWER PIPE SERVICERS	556	875110
SERVICE OCCUPATIONS	365	600000

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OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
SERVICE STATION ATTENDANTS	826	978050
SERVICE UNIT OPERATORS	581	879170
SEWERS-HAND	771	939230
SEWING MACHINE OPERATORS--GARMENT	721	927170
SEWING MACHINE OPS--NON-GARMENT	722	927210
SHAMPOOERS	426	680110
SHEAR MACH SETTERS--METAL, PLASTIC	661	913080
SHEET METAL DUCT INSTALLERS	569	878050
SHEET METAL WORKERS	601	891320
SHERIFFS AND DEPUTY SHERIFFS	382	630320
SHIP ENGINEERS	821	975210
SHIPFITTERS	597	891210
SHOE AND LEATHER WKRS--PRECISION	615	895110
SHOE SEWING MACHINE OPS, TENDERS	723	927230
SHUTTLE CAR OPERATORS	841	979350
SIGNAL OR TRACK SWITCH MAINTAINERS	499	855110
SLAUGHTERERS AND BUTCHERS	635	898020
SMALL ENGINE SPECIALISTS	493	853280
SOCIAL SCI, RECREATION, RELIGIOUS	114	270000
SOCIAL SCI--INCL URBAN, REG PLNRS	115	271000
SOCIAL SCIENCE TEACHERS	150	312100
SOCIAL SCIENTISTS, NEC	119	271990
SOCIAL WKRS--EX MED, PSYCHIATRIC	122	273050
SOCIAL WORKERS--MED, PSYCHIATRIC	121	273020
SOLDERERS AND BRAZERS	769	939170
SOLDERING, BRAZING MACH OPS,TENDRS	674	917110
SOLDERING, BRAZING MACH SETTERS	673	917080
SPEC MATERL PRINTING MACH SETTERS	706	925220
SPECIAL AGENTS--INSURANCE	38	215050
SPEECH PATHOLOGISTS, AUDIOLOGISTS	190	323140
SPOTTERS--DRY CLEANING	616	895140
STATEMENT CLERKS	284	531260
STATION INSTALLERS--TELEPHONE	511	857260
STATIONARY ENGINEERS	795	950320
STATISTICAL CLERKS	323	553280
STATISTICIANS	109	253120
STENOGRAPHERS	315	553020
STEVEDORES--EX EQUIPMENT OPERATORS	866	987020
STOCK CLERKS--SALES FLOOR	267	490210
STOCK CLERKS--STOCKROOM, WAREHOUSE	359	580230
STONE MASONS	545	873050
STRIPPERS	629	897170
STRUCTURAL METAL WORKERS	572	878140
SUBWAY AND STREETCAR OPERATORS	811	973140
SURGICAL TECHNICIANS	214	329280
SURVEYING AND MAPPING SCIENTISTS	71	223110
SURVEYING AND MAPPING TECHS	79	225210
SWITCHBOARD OPERATORS	341	571020
SYSTEMS ANALYSTS-ELEC DATA PROC	102	251020
TANK CAR AND TRUCK LOADERS	831	979050
TAPERS	538	871110
TAX EXAMINERS, COLLECT, REV AGENTS	46	219140
TAX PREPARERS	28	211110
TAXI DRIVERS AND CHAUFFEURS	803	971140

ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
TEACHERS AND INSTRUCTORS, NEC	167	313990
TEACHERS, EDUCATORS, LIBRARIANS	141	310000
TEACHERS, PRESCHOOL & KINDERGARTEN	159	313020
TEACHERS--ELEMENTARY SCHOOL	160	313050
TEACHERS--SECONDARY SCHOOL	161	313080
TEACHERS--SPECIAL EDUCATION	162	313110
TEACHERS--VOC ED AND TRAINING	163	313140
TECHNICAL ASSISTANTS--LIBRARY	170	315050
TECHNICAL WRITERS	220	340050
TELEGRAPH AND TELETYPE OPERATORS	344	571110
TELEGRAPH, TELETYPE INSTALLERS	498	855080
TELEMARKETERS, SOLICITORS & RELATED	269	490260
TELEPHONE, CABLE TV INSTALLERS	503	857020
TELLERS	276	531020
TEXT, APPAREL, FURNISHINGS, NEC--PREC	619	895990
TEXTILE BLEACHING, DYEING MACH OPS	720	927140
TEXTILE DRAW-OUT MACH OPS, TNDRS	719	927110
TEXTILE MACH SETTERS, SET-UP OPS	716	927020
TEXTILE OPS, TNDRS--WIND, TWIST, KNIT	717	927050
TEXTILE, APPAREL, FURNISHINGS, PREC	611	895000
TEXTILE, RELATED SETTERS, OPS	715	927000
THERAPISTS	185	323000
THERAPISTS, NEC	192	323990
TIMBER CUTTING AND LOGGING	441	730000
TIMBER CUTTING AND RELATED, NEC	446	730990
TIRE BUILDING MACHINE OPERATORS	730	929110
TIRE REPAIRERS AND CHANGERS	530	859530
TITLE EXAMINERS AND ABSTRACTORS	139	283110
TITLE SEARCHERS	138	283080
TOOL AND DIE MAKERS	591	891020
TOOL GRINDERS, FILERS, SHARPENERS	594	891110
TRAFFIC TECHNICIANS	242	390050
TRAFFIC, SHIPPING, RECEIVING CLKS	361	580280
TRANS AND RELATED WORKERS, NEC	828	978990
TRANS ATTENDANTS--EX FLIGHT	432	680280
TRANS, MAT MOVING EQUIP OPS, NEC	850	979990
TRANS, MATERIAL MOVING MACHINE OPS	797	970000
TRANSIT CLERKS	278	531080
TRANSPORTATION AGENTS	355	580110
TRANSPORTATION INSPECTORS	469	830080
TRAVEL AGENTS	256	430210
TRAVEL CLERKS	301	538020
TRUCK DRIVERS, HEAVY	799	971020
TRUCK DRIVERS, LIGHT	800	971050
TYPESETTING, COMPOSING MACH OPS	710	925410
TYPISTS, INCLUDING WORD PROCESSING	317	553070
U.S. MARSHALLS	380	630260
UNDERGROUND MINE MACH MECHANICS	476	851170
UNDERWRITERS	25	211020
UPHOLSTERERS	614	895080
URBAN AND REGIONAL PLANNERS	117	271050
USHERS, LOBBY ATTENDANTS	429	680210
VEHICLE SALESPERSONS - RETAIL	263	490111
VEHICLE WASHERS, EQUIP CLEANERS	871	989050

ALPHABETICAL INDEX OF OCCUPATIONS

OCCUPATION	LINE NUMBER	CALIFORNIA OES CODE
VETERINARY ASSISTANTS	456	798060
VETERINARY TECHNICIANS	216	329510
VETS AND VETERINARY INSPECTORS	183	321140
VOCATIONAL & EDUCATIONAL COUNSELOR	173	315140
WAITERS AND WAITRESSES	392	650080
WARDROBE ATTENDANTS	433	680320
WATCH ASSEMBLERS, REL--PRECISION	761	931170
WATCHMAKERS	520	859170
WATER TRANSPORTATION WORKERS	814	975000
WATER TREATMENT PLANT OPERATORS	785	950020
WEIGHERS, MEASURERS--RECORDKEEPING	357	580170
WELDERS AND CUTTERS	768	939140
WELDING MACH OPERATORS AND TENDERS	672	917050
WELDING MACH SETTERS, SET-UP OPS	671	917020
WELFARE ELIG WORKERS, INTERVIEWERS	293	535020
WELL HEAD PUMPERS	833	979110
WHLE AND RET BUYERS--EX FARM PRODS	33	213020
WOOD MACHINISTS	607	893080
WOODWORK MACH OPS,TNDRS--EX SAWING	699	923140
WOODWORK MACH SETTERS--EX SAWING	698	923110
WOODWORKERS, NEC--PRECISION	610	893990
WOODWORKERS, PRECISION	604	893000
WOODWORKING MACH SETTERS, OPS	694	923000
WORKERS, PRECISION--NEC	649	899990
WRITERS AND EDITORS	219	340020
WRITERS, ARTISTS, ENTER, ATHLETES	218	340000



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